78243

194698

STIC-Biotech/ChemLib

From: Jiang, Dong
Sent: Wednesday, July 05, 2006 11:08 AM
To: STIC-Biotech/ChemLib
Subject: 10/617,573

Please search SEQ ID NO:6 (standard & oligomer)

- issued & Pub.
- commercial

Please send results on paper to Dong Jiang in REM 4D70 (mail stop REM 4C70).

Thank you very much.

Dong

Dong Jiang
AU1646
REM - 4D70
571-272-0872
Mail stop REM - 4C70

Point of Contact:
Alexandra Waclawiw
Technical Info. Specialis
C[illegible] 5A02 Tel: 308-44[illegible]

****
Searcher:_____
Searcher Phone:_____
Date Searcher Picked up: 7/6/06
Date completed:_____ 7/6/06
Searcher Prep Time: 10
Online Time: 12

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Type of Search
NA#_____ AA#: 2
S/L:_____ Oligomer:_____
Encode/Transl:_____
Structure #:_____Text:_____
Inventor:_____ Litigation:_____

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Vendors and cost where applicable
STN:_____
DIALOG:_____
QUESTEL/ORBIT:_____
LEXIS/NEXIS:_____
SEQUENCE SYSTEM: ✓
WWW/Internet:_____
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GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 08:15:41 ; Search time 51 Seconds
(without alignments)
303.783 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 177
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 650591 seqs, 87530628 residues

Word size : 1

Total number of hits satisfying chosen parameters: 649417

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database : Issued_Patents_AA:*
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7: /EMC_Celerra_SIDS3/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	177	100.0	177	2	US-09-747-259-6	Sequence 6, Appli
2	177	100.0	177	2	US-09-816-744-6	Sequence 6, Appli
3	177	100.0	233	2	US-09-949-016-9008	Sequence 9008, Ap
4	159	89.8	161	2	US-09-480-297A-14	Sequence 14, Appl
5	159	89.8	161	2	US-09-836-385-2	Sequence 2, Appli
6	159	89.8	161	3	US-10-366-791-14	Sequence 14, Appl
7	25	14.1	169	2	US-09-480-297A-18	Sequence 18, Appl
8	25	14.1	169	2	US-09-836-385-4	Sequence 4, Appli
9	25	14.1	169	3	US-10-366-791-18	Sequence 18, Appl
10	13	7.3	144	2	US-09-480-297A-16	Sequence 16, Appl
11	13	7.3	144	3	US-10-366-791-16	Sequence 16, Appl
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60	6	3.4	89	2	US-09-902-540-12093	Sequence 12093, A
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73	6	3.4	111	1	US-08-477-728-54	Sequence 54, Appl
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75	6	3.4	111	1	US-08-442-542-4	Sequence 4, Appli
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77	6	3.4	111	1	US-08-487-200-54	Sequence 54, Appl
78	6	3.4	111	2	US-08-483-749A-22	Sequence 22, Appl
79	6	3.4	111	2	US-08-765-469-4	Sequence 4, Appli
80	6	3.4	111	2	US-08-881-037-76	Sequence 76, Appl
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83	6	3.4	112	2	US-09-065-059-13	Sequence 13, Appl
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85	6	3.4	112	2	US-09-810-502-37	Sequence 37, Appl
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87	6	3.4	112	2	US-08-913-555-13	Sequence 13, Appl
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91	6	3.4	117	2	US-09-248-796A-23482	Sequence 23482, A
92	6	3.4	117	2	US-09-902-540-11185	Sequence 11185, A
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96	6	3.4	120	2	US-09-489-039A-12045	Sequence 12045, A
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98	6	3.4	121	1	US-08-111-080-18	Sequence 18, Appl
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ALIGNMENTS

RESULT 1
US-09-747-259-6
; Sequence 6, Application US/09747259
; Patent No. 6569645
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P1(US)
; CURRENT APPLICATION NUMBER: US/09/747,259
; CURRENT FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 09/311,832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/172,096
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: US 60/213,087
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: US 09/644,848
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/242,837
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: PCT/US00/30873
; PRIOR FILING DATE: 2000-11-10
; PRIOR APPLICATION NUMBER: US 60/253,646
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-747-259-6

Query Match 100.0%; Score 177; DB 2; Length 177;
Best Local Similarity 100.0%; Pred. No. 2.1e-162;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-09-816-744-6
; Sequence 6, Application US/09816744
; Patent No. 6579520
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P2(US)
; CURRENT APPLICATION NUMBER: US/09/816,744
; CURRENT FILING DATE: 2001-03-22
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-816-744-6

Query Match 100.0%; Score 177; DB 2; Length 177;
Best Local Similarity 100.0%; Pred. No. 2.1e-162;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
US-09-949-016-9008
; Sequence 9008, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

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;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9008
;   LENGTH: 233
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-9008

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RESULT 4
US-09-480-297A-14
; Sequence 14, Application US/09480297A
; Patent No. 6562578
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/09/480,297A
;  CURRENT FILING DATE:  2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-480-297A-14

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Db        123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161


RESULT 5
US-09-836-385-2
; Sequence 2, Application US/09836385
; Patent No. 6676939
; GENERAL INFORMATION:
;  APPLICANT: Hurst, Stephen D.
;  APPLICANT:  Zurawski, Sandra M.
;  APPLICANT:  Rennick, Donna M.
;  TITLE OF INVENTION: Cytokine Uses; Compositions; Methods
;  FILE REFERENCE: DX01088K
;  CURRENT APPLICATION NUMBER: US/09/836,385
;  CURRENT FILING DATE:  2001-04-17
;  PRIOR APPLICATION NUMBER: US 60/198,488
;  PRIOR FILING DATE: 2000-04-18
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: primate
US-09-836-385-2

  Query Match            89.8%;  Score 159;  DB 2;  Length 161;
  Best Local Similarity  100.0%;  Pred. No. 3.9e-145;
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RESULT 6
US-10-366-791-14
; Sequence 14, Application US/10366791
; Patent No. 7005501
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/10/366,791
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: US/09/480,297A
;  PRIOR FILING DATE: 2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-366-791-14

  Query Match            89.8%;  Score 159;  DB 3;  Length 161;
  Best Local Similarity  100.0%;  Pred. No. 3.9e-145;
  Matches  159;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62

Qy         79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db         63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122

Qy        139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||
Db        123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161


RESULT 7
US-09-480-297A-18
; Sequence 18, Application US/09480297A
; Patent No. 6562578
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/09/480,297A
;  CURRENT FILING DATE:  2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-480-297A-18

  Query Match             14.1%;  Score 25;  DB 2;  Length 169;
  Best Local Similarity   100.0%;  Pred. No. 3.1e-16;
  Matches   25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        102 PQDLYHARCLCPHCVSLQTGSHMDP 126
              |||||||||||||||||||||||||
Db         94 PQDLYHARCLCPHCVSLQTGSHMDP 118


RESULT 8
US-09-836-385-4
; Sequence 4, Application US/09836385
; Patent No. 6676939
; GENERAL INFORMATION:
;  APPLICANT: Hurst, Stephen D.
;  APPLICANT:  Zurawski, Sandra M.
;  APPLICANT:  Rennick, Donna M.
;  TITLE OF INVENTION: Cytokine Uses; Compositions; Methods
;  FILE REFERENCE: DX01088K
;  CURRENT APPLICATION NUMBER: US/09/836,385
;  CURRENT FILING DATE:  2001-04-17
;  PRIOR APPLICATION NUMBER: US 60/198,488
;  PRIOR FILING DATE: 2000-04-18
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: rodent
US-09-836-385-4

  Query Match             14.1%;  Score 25;  DB 2;  Length 169;
  Best Local Similarity   100.0%;  Pred. No. 3.1e-16;
  Matches   25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        102 PQDLYHARCLCPHCVSLQTGSHMDP 126
              |||||||||||||||||||||||||
Db         94 PQDLYHARCLCPHCVSLQTGSHMDP 118


RESULT 9
US-10-366-791-18
; Sequence 18, Application US/10366791
; Patent No. 7005501
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/10/366,791
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: US/09/480,297A
;  PRIOR FILING DATE: 2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-366-791-18

  Query Match             14.1%;  Score 25;  DB 3;  Length 169;
  Best Local Similarity   100.0%;  Pred. No. 3.1e-16;
  Matches   25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        102 PQDLYHARCLCPHCVSLQTGSHMDP 126
              |||||||||||||||||||||||||
Db         94 PQDLYHARCLCPHCVSLQTGSHMDP 118


RESULT 10
US-09-480-297A-16
; Sequence 16, Application US/09480297A
; Patent No. 6562578
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/09/480,297A
;  CURRENT FILING DATE:  2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 144
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-480-297A-16

  Query Match              7.3%;  Score 13;  DB 2;  Length 144;
  Best Local Similarity   100.0%;  Pred. No. 9.4e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        133 LYHNQTVFYRRPC 145
              |||||||||||||
Db         92 LYHNQTVFYRRPC 104


RESULT 11
US-10-366-791-16
; Sequence 16, Application US/10366791
; Patent No. 7005501
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/10/366,791
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: US/09/480,297A
```

```
;  PRIOR FILING DATE: 2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 144
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-366-791-16

  Query Match             7.3%;  Score 13;  DB 3;  Length 144;
  Best Local Similarity   100.0%;  Pred. No. 9.4e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        133 LYHNQTVFYRRPC 145
              |||||||||||||
Db         92 LYHNQTVFYRRPC 104


RESULT 12
US-09-979-338A-27
; Sequence 27, Application US/09979338A
; Patent No. 6846622
; GENERAL INFORMATION:
;  APPLICANT: Heffron et al.
;  TITLE OF INVENTION: Tagged Epitope Protein Transposable Element
;  FILE REFERENCE: 61589
;  CURRENT APPLICATION NUMBER: US/09/979,338A
;  CURRENT FILING DATE:  2001-11-21
;  PRIOR APPLICATION NUMBER: PCT/US00/14687
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/136,210
;  PRIOR FILING DATE: 1999-05-26
;  NUMBER OF SEQ ID NOS: 33
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 82
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Amino acid
;   OTHER INFORMATION: resolved product using the construct shown in FIG
;   OTHER INFORMATION: 5.
US-09-979-338A-27

  Query Match             4.0%;  Score 7;  DB 2;  Length 82;
  Best Local Similarity   100.0%;  Pred. No. 34;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         22 AFLAMVM 28
              |||||||
Db         35 AFLAMVM 41


RESULT 13
US-09-270-767-40219
; Sequence 40219, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40219
;   LENGTH: 90
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-40219

  Query Match             4.0%;  Score 7;  DB 2;  Length 90;
  Best Local Similarity   100.0%;  Pred. No. 37;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        117 SLQTGSH 123
              |||||||
Db         54 SLQTGSH 60


RESULT 14
US-09-270-767-55435
; Sequence 55435, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55435
;   LENGTH: 90
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-55435

  Query Match             4.0%;  Score 7;  DB 2;  Length 90;
  Best Local Similarity   100.0%;  Pred. No. 37;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        117 SLQTGSH 123
              |||||||
Db         54 SLQTGSH 60


RESULT 15
US-09-979-338A-31
; Sequence 31, Application US/09979338A
; Patent No. 6846622
; GENERAL INFORMATION:
;  APPLICANT: Heffron et al.
;  TITLE OF INVENTION: Tagged Epitope Protein Transposable Element
;  FILE REFERENCE: 61589
;  CURRENT APPLICATION NUMBER: US/09/979,338A
;  CURRENT FILING DATE:  2001-11-21
;  PRIOR APPLICATION NUMBER: PCT/US00/14687
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/136,210
;  PRIOR FILING DATE: 1999-05-26
;  NUMBER OF SEQ ID NOS: 33
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
;   LENGTH: 92
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Amino acid
;   OTHER INFORMATION: resolved product using the construct shown in f
;   OTHER INFORMATION: FIG 9.
US-09-979-338A-31

  Query Match             4.0%;  Score 7;  DB 2;  Length 92;
  Best Local Similarity   100.0%;  Pred. No. 38;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         22 AFLAMVM 28
              |||||||
Db         42 AFLAMVM 48


RESULT 16
US-08-845-546-10
```

```
; Sequence 10, Application US/08845546
; Patent No. 6077949
;  GENERAL INFORMATION:
;    APPLICANT:  Munroe, Donald
;    APPLICANT:  Gupta, Ashwani
;    APPLICANT:  Vyas, Tejal
;    APPLICANT:  McCallum, Kirk
;    APPLICANT:  Fan, Ermei
;    TITLE OF INVENTION:  CLONED GLUCAGON-LIKE PEPTIDE
;    TITLE OF INVENTION:  2 RECEPTORS
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds LLP
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/845,546
;      FILING DATE:  24-APR-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Friebel, Thomas E.
;      REGISTRATION NUMBER:  29,258
;      REFERENCE/DOCKET NUMBER:  8607-018
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869-8864
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  222 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
US-08-845-546-10

  Query Match             4.0%;  Score 7;  DB 2;  Length 222;
  Best Local Similarity   100.0%;  Pred. No. 80;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db          3 SLISLFL 9


RESULT 17
US-09-486-192-6
; Sequence 6, Application US/09486192
; Patent No. 6521440
; GENERAL INFORMATION:
;  APPLICANT:  Estell, David A.
;  TITLE OF INVENTION:  Proteases From Gram-Positive Organisms
;  FILE REFERENCE:  GC386-US
;  CURRENT APPLICATION NUMBER: US/09/486,192
;  CURRENT FILING DATE:  2000-02-22
;  PRIOR APPLICATION NUMBER:  PCT/US98/18677
;  PRIOR FILING DATE:  1998-09-08
;  PRIOR APPLICATION NUMBER:  EP9719637.2
;  PRIOR FILING DATE:  1997-09-15
;  NUMBER OF SEQ ID NOS:  6
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 283
;   TYPE: PRT
;   ORGANISM: Haemophilis influenza
\

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US-09-486-192-6

  Query Match             4.0%;  Score 7;  DB 2;  Length 283;
  Best Local Similarity   100.0%;  Pred. No. 99;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db         47 SLISLFL 53


RESULT 18
US-10-328-459A-6
; Sequence 6, Application US/10328459A
; Patent No. 6905868
; GENERAL INFORMATION:
;  APPLICANT: Genencor International, Inc.
;  TITLE OF INVENTION: Proteases From Gram-Positive Organisms
;  FILE REFERENCE: GC386-PCT
;  CURRENT APPLICATION NUMBER: US/10/328,459A
;  CURRENT FILING DATE:  2002-12-23
;  PRIOR APPLICATION NUMBER: PCT/US98/
;  PRIOR FILING DATE: 1998-09-08
;  PRIOR APPLICATION NUMBER: EP9719637.2
;  PRIOR FILING DATE: 1997-09-15
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 283
;   TYPE: PRT
;   ORGANISM: Haemophilis influenza
US-10-328-459A-6

  Query Match             4.0%;  Score 7;  DB 2;  Length 283;
  Best Local Similarity   100.0%;  Pred. No. 99;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db         47 SLISLFL 53


RESULT 19
US-08-889-108-4
; Sequence 4, Application US/08889108
; Patent No. 6103492
;  GENERAL INFORMATION:
;    APPLICANT:  Yu, Lei
;    TITLE OF INVENTION:  Mu Opioid Receptors: Compostions and Methods
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold, White & Durkee
;      STREET:  P. O. Box 4433
;      CITY:  Houston
;      STATE:  TX
;      COUNTRY:  USA
;      ZIP:  77210-4433
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,108
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/305,518
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Wilson, Mark B.
;      REGISTRATION NUMBER:  37,259
;      REFERENCE/DOCKET NUMBER:  INDA005\WIM
```

```
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  512-418-3000
;      TELEFAX:  512-474-7577
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  298 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-889-108-4

  Query Match             4.0%;  Score 7;  DB 2;  Length 298;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         95 DRDLNRL 101
              |||||||
Db        100 DRDLNRL 106


RESULT 20
US-08-120-601B-4
; Sequence 4, Application US/08120601B
; Patent No. 6235496
;  GENERAL INFORMATION:
;    APPLICANT:  Yu, Lei
;    TITLE OF INVENTION:  MU OPIOID RECEPTORS:  COMPOSOTIONS AND
;    TITLE OF INVENTION:  METHODS
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold, White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/120,601B
;      FILING DATE:  13-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Wilson, Mark B.
;      REGISTRATION NUMBER:  37,259
;      REFERENCE/DOCKET NUMBER:  INDA:002
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  512/418-3000
;      TELEFAX:  512/474-7577
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  298 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-120-601B-4

  Query Match             4.0%;  Score 7;  DB 2;  Length 298;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         95 DRDLNRL 101
              |||||||
Db        100 DRDLNRL 106


RESULT 21
PCT-US94-10358-4
; Sequence 4, Application PC/TUS9410358
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  MU OPIOID RECEPTORS: COMPOSITIONS AND METHODS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold, White & Durkee
;      STREET:  P. O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS/ASCII
;      SOFTWARE:  PATENTIN RELEASE #1.0, VERSION #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/10358
;      FILING DATE:  Concurrently herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/120.601
;      FILING DATE:  13 SEPTEMBER 1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WILSON, MARK B.
;      REGISTRATION NUMBER:  37,259
;      REFERENCE/DOCKET NUMBER:  INDA005P--
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (512) 418-3000
;      TELEFAX:  (713) 789-2679
;      TELEX:  79-0924
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  298 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US94-10358-4

  Query Match             4.0%;  Score 7;  DB 5;  Length 298;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         95 DRDLNRL 101
              |||||||
Db        100 DRDLNRL 106


RESULT 22
US-09-248-796A-23431
; Sequence 23431, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 23431
;   LENGTH: 345
;   TYPE: PRT
;   ORGANISM: Candida albicans
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: (44)
;   OTHER INFORMATION: Identity of amino acid sequences at the above locations are unkno
US-09-248-796A-23431
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  Query Match             4.0%;  Score 7;  DB 2;  Length 345;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         10 DSSLISL 16
              |||||||
Db         81 DSSLISL 87


RESULT 23
US-10-094-749-1961
; Sequence 1961, Application US/10094749
; Patent No. 6979557
; GENERAL INFORMATION:
;  APPLICANT: ISOGAI, TAKAO
;  APPLICANT:  SUGIYAMA, TOMOYASU
;  APPLICANT:  OTSUKI, TETSUJI
;  APPLICANT:  WAKAMATSU, AI
;  APPLICANT:  SATO, HIROYUKI
;  APPLICANT:  ISHII, SHIZUKO
;  APPLICANT:  YAMAMOTO, JUN-ICHI
;  APPLICANT:  ISONO, YUUKO
;  APPLICANT:  HIO, YURI
;  APPLICANT:  OTSUKA, KAORU
;  APPLICANT:  NAGAI, KEIICHI
;  APPLICANT:  IRIE, RYOTARO
;  APPLICANT:  TAMECHIKA, ICHIRO
;  APPLICANT:  SEKI, NAOHIKO
;  APPLICANT:  YOSHIKAWA, TSUTOMU
;  APPLICANT:  OTSUKA, MOTOYUKI
;  APPLICANT:  NAGAHARI, KENJI
;  APPLICANT:  MASUHO, YASUHIKO
;  TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
;  FILE REFERENCE: 084335/0160
;  CURRENT APPLICATION NUMBER: US/10/094,749
;  CURRENT FILING DATE:  2002-03-12
;  PRIOR APPLICATION NUMBER: 60/350,435
;  PRIOR FILING DATE: 2002-01-24
;  PRIOR APPLICATION NUMBER: JP 2001-328381
;  PRIOR FILING DATE: 2001-09-14
;  NUMBER OF SEQ ID NOS: 3381
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1961
;    LENGTH: 502
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-10-094-749-1961

  Query Match             4.0%;  Score 7;  DB 2;  Length 502;
  Best Local Similarity   100.0%;  Pred. No. 1.6e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        127 RGNSELL 133
              |||||||
Db        375 RGNSELL 381


RESULT 24
US-08-845-546-2
; Sequence 2, Application US/08845546
; Patent No. 6077949
;  GENERAL INFORMATION:
;    APPLICANT:  Munroe, Donald
;    APPLICANT:  Gupta, Ashwani
;    APPLICANT:  Vyas, Tejal
;    APPLICANT:  McCallum, Kirk
;    APPLICANT:  Fan, Ermei
;    TITLE OF INVENTION:  CLONED GLUCAGON-LIKE PEPTIDE
;    TITLE OF INVENTION:  2 RECEPTORS
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds LLP
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/845,546
;      FILING DATE:  24-APR-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Friebel, Thomas E.
;      REGISTRATION NUMBER:  29,258
;      REFERENCE/DOCKET NUMBER:  8607-018
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869-8864
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  509 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  peptide
US-08-845-546-2

  Query Match             4.0%;  Score 7;  DB 2;  Length 509;
  Best Local Similarity   100.0%;  Pred. No. 1.6e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db        148 SLISLFL 154


RESULT 25
US-09-949-016-7107
; Sequence 7107, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7107
;    LENGTH: 520
;    TYPE: PRT
;    ORGANISM: Human
US-09-949-016-7107

  Query Match             4.0%;  Score 7;  DB 2;  Length 520;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        145 CHGEKGT 151
              |||||||
Db        408 CHGEKGT 414
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Search completed: July 6, 2006, 08:17:04
Job time : 53 secs

GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 08:07:11 ; Search time 298 Seconds
(without alignments)
549.422 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 177
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 2849598 seqs, 925015592 residues

Word size : 1

Total number of hits satisfying chosen parameters: 2849598

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database : UniProt_7.2:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	177	100.0	177	1	IL17E_HUMAN	Q9h293 homo sapien
2	159	89.8	161	2	Q2M3F0_HUMAN	Q2m3f0 homo sapien
3	25	14.1	153	2	Q8VHC9_MOUSE	Q8vhc9 mus musculu
4	25	14.1	169	2	Q8VHH8_MOUSE	Q8vhh8 mus musculu
5	9	5.1	1869	2	Q5CTL2_CRYPV	Q5ctl2 cryptospori
6	8	4.5	316	2	Q8LEY5_ARATH	Q8ley5 arabidopsis
7	8	4.5	316	2	Q9LVS4_ARATH	Q9lvs4 arabidopsis
8	8	4.5	398	2	Q88YJ0_LACPL	Q88yj0 lactobacill
9	8	4.5	432	2	Q40LM7_DESAC	Q40lm7 desulfuromo
10	8	4.5	895	1	YP67_CAEEL	Q09216 caenorhabdi
11	7	4.0	75	2	Q8R7Z4_THETN	Q8r7z4 thermoanaer
12	7	4.0	84	2	Q2MFK6_STRTN	Q2mfk6 streptomyce
13	7	4.0	86	2	Q7SXM1_BRARE	Q7sxm1 brachydanio
14	7	4.0	100	2	Q74J51_LACJO	Q74j51 lactobacill
15	7	4.0	101	2	Q47EA5_DECAR	Q47ea5 dechloromon
16	7	4.0	106	2	Q8BNA0_MOUSE	Q8bna0 mus musculu
17	7	4.0	120	2	Q4PNH6_9BACT	Q4pnh6 uncultured
18	7	4.0	120	2	Q5C8N2_9ADEN	Q5c8n2 simian aden
19	7	4.0	129	2	Q35Q42_9BRAD	Q35q42 bradyrhizob
20	7	4.0	129	2	Q2J1S6_RHOPA	Q2j1s6 rhodopseudo
21	7	4.0	129	2	Q6N0R0_RHOPA	Q6n0r0 rhodopseudo
22	7	4.0	135	2	Q3XYN6_ENTFC	Q3xyn6 enterococcu
23	7	4.0	136	2	Q4W1W0_CANFA	Q4w1w0 canis famil
24	7	4.0	148	2	Q677E9_HYAOR	Q677e9 hyacinthus
25	7	4.0	151	2	Q80UB5_MOUSE	Q80ub5 mus musculu
26	7	4.0	157	2	Q483X9_COLP3	Q483x9 colwellia p
27	7	4.0	160	2	Q5F7W1_NEIG1	Q5f7w1 neisseria g
28	7	4.0	160	2	Q9JTP2_NEIMA	Q9jtp2 neisseria m
29	7	4.0	160	2	Q9JYQ0_NEIMB	Q9jyq0 neisseria m
30	7	4.0	168	1	ISPF_PROAC	Q6aav7 propionibac
31	7	4.0	175	2	Q9B829_CORPE	Q9b829 coryphopter
32	7	4.0	179	2	Q53ME7_ORYSA	Q53me7 oryza sativ
33	7	4.0	181	2	Q3URJ9_MOUSE	Q3urj9 mus musculu
34	7	4.0	185	2	Q40LN2_DESAC	Q40ln2 desulfuromo
35	7	4.0	198	2	Q8BKM8_MOUSE	Q8bkm8 mus musculu
36	7	4.0	208	2	Q71RG6_HUMAN	Q71rg6 homo sapien
37	7	4.0	211	2	Q39BI2_BURS3	Q39bi2 burkholderi
38	7	4.0	222	2	Q6SNI5_COLGU	Q6sni5 colobus gue
39	7	4.0	225	2	Q7QG46_ANOGA	Q7qg46 anopheles g
40	7	4.0	227	2	Q8WUR8_HUMAN	Q8wur8 homo sapien
41	7	4.0	227	2	Q7X0F2_AERHY	Q7x0f2 aeromonas h
42	7	4.0	227	2	Q2YVC8_STAAB	Q2yvc8 staphylococ
43	7	4.0	227	2	Q5HJ79_STAAC	Q5hj79 staphylococ
44	7	4.0	227	2	Q6GCH8_STAAS	Q6gch8 staphylococ
45	7	4.0	227	2	Q7A7R4_STAAN	Q7a7r4 staphylococ
46	7	4.0	227	2	Q8NYE6_STAAW	Q8nye6 staphylococ
47	7	4.0	227	2	Q99WT2_STAAM	Q99wt2 staphylococ
48	7	4.0	230	2	Q5NEE8_FRATT	Q5nee8 francisella
49	7	4.0	240	2	Q64NF7_BACFR	Q64nf7 bacteroides
50	7	4.0	240	2	Q63ZJ9_XENLA	Q63zj9 xenopus lae
51	7	4.0	246	2	Q31QQ1_SYNP7	Q31qq1 synechococc
52	7	4.0	246	2	Q4KFR7_PSEF5	Q4kfr7 pseudomonas
53	7	4.0	247	2	Q4J2Q2_AZOVI	Q4j2q2 azotobacter
54	7	4.0	249	2	Q4W1W1_CANFA	Q4w1w1 canis famil
55	7	4.0	251	2	Q67MW8_SYMTH	Q67mw8 symbiobacte
56	7	4.0	255	1	Y937_SYNP6	P05675 synechococc
57	7	4.0	256	2	Q3HDR1_TRIER	Q3hdr1 trichodesmi
58	7	4.0	257	2	Q8K276_MOUSE	Q8k276 mus musculu
59	7	4.0	261	2	Q825A5_STRAW	Q825a5 streptomyce
60	7	4.0	266	2	Q39MJ6_BURS3	Q39mj6 burkholderi
61	7	4.0	266	2	Q470J0_RALEJ	Q470j0 ralstonia e
62	7	4.0	268	2	Q371S7_RHOPA	Q371s7 rhodopseudo
63	7	4.0	268	2	Q563A9_9VIRU	Q563a9 venezuelan
64	7	4.0	272	2	Q4KAX8_PSEF5	Q4kax8 pseudomonas
65	7	4.0	272	2	O36277_9VIRU	O36277 venezuelan
66	7	4.0	272	2	O36278_9VIRU	O36278 venezuelan
67	7	4.0	272	2	O36290_9VIRU	O36290 venezuelan
68	7	4.0	272	2	Q563B2_9VIRU	Q563b2 venezuelan
69	7	4.0	272	2	Q563B3_9VIRU	Q563b3 venezuelan
70	7	4.0	272	2	Q563B5_9VIRU	Q563b5 venezuelan
71	7	4.0	272	2	Q563B6_9VIRU	Q563b6 venezuelan
72	7	4.0	272	2	Q563C0_9VIRU	Q563c0 venezuelan
73	7	4.0	272	2	Q98757_9VIRU	Q98757 venezuelan
74	7	4.0	272	2	Q98758_9VIRU	Q98758 venezuelan
75	7	4.0	272	2	Q98761_9VIRU	Q98761 venezuelan
76	7	4.0	272	2	Q98762_9VIRU	Q98762 venezuelan
77	7	4.0	272	2	Q98764_9VIRU	Q98764 venezuelan
78	7	4.0	272	2	Q98765_9VIRU	Q98765 venezuelan
79	7	4.0	272	2	Q98766_9VIRU	Q98766 venezuelan
80	7	4.0	272	2	Q98767_9VIRU	Q98767 venezuelan
81	7	4.0	272	2	Q98768_9VIRU	Q98768 venezuelan
82	7	4.0	272	2	Q98769_9VIRU	Q98769 venezuelan
83	7	4.0	272	2	Q98770_9VIRU	Q98770 venezuelan
84	7	4.0	272	2	Q98771_9VIRU	Q98771 venezuelan
85	7	4.0	272	2	Q98772_9VIRU	Q98772 venezuelan
86	7	4.0	275	1	PHNC_WOLSU	Q7m8m4 wolinella s
87	7	4.0	277	2	Q65PH4_BACLD	Q65ph4 bacillus li
88	7	4.0	282	2	Q2KWF2_BORAV	Q2kwf2 bordetella
89	7	4.0	282	2	Q5X0T3_LEGPA	Q5x0t3 legionella
90	7	4.0	283	1	HTPX_HAEIN	P44840 haemophilus
91	7	4.0	283	2	Q4QMJ9_HAEI8	Q4qmj9 haemophilus
92	7	4.0	286	1	HTPX_PASMU	P57846 pasteurella
93	7	4.0	288	1	SPY3_HUMAN	O43610 homo sapien
94	7	4.0	288	2	Q9N1R5_SHEEP	Q9n1r5 ovis aries
95	7	4.0	288	2	Q3UUD2_MOUSE	Q3uud2 mus musculu
96	7	4.0	289	2	Q7U9S1_SYNPX	Q7u9s1 synechococc
97	7	4.0	291	1	Y1353_SYNY3	P42350 synechocyst
98	7	4.0	291	2	Q5LXK9_STRT1	Q5lxk9 streptococc
99	7	4.0	291	2	Q5M260_STRT2	Q5m260 streptococc
100	7	4.0	294	2	Q4K787_PSEF5	Q4k787 pseudomonas

ALIGNMENTS

```
RESULT 1
IL17E_HUMAN
ID   IL17E_HUMAN    STANDARD;      PRT;   177 AA.
AC   Q9H293; Q8IZV3; Q8WXB0;
DT   31-JAN-2002, integrated into UniProtKB/Swiss-Prot.
DT   01-MAR-2001, sequence version 1.
DT   07-FEB-2006, entry version 36.
DE   Interleukin-17E precursor (IL-17E) (Interleukin-25) (IL-25).
GN   Name=IL17E; Synonyms=IL25; ORFNames=UNQ3120/PRO10272;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
RX   PubMed=11058597; DOI=10.1074/jbc.M008289200;
RA   Lee J., Ho W.-H., Maruoka M., Corpuz R.T., Baldwin D.T., Foster J.S.,
RA   Goddard A.D., Yansura D.G., Vandlen R.L., Wood W.I., Gurney A.L.;
RT   "IL-17E, a novel proinflammatory ligand for the IL-17 receptor homolog
RT   IL-17Rh1.";
RL   J. Biol. Chem. 276:1660-1664(2001).
RN   [2]
RP   NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 2).
RX   MEDLINE=21629216; PubMed=11754819; DOI=10.1016/S1074-7613(01)00243-6;
RA   Fort M.M., Cheung J., Yen D., Li J., Zurawski S.M., Lo S., Menon S.,
RA   Clifford T., Hunte B., Lesley R., Muchamuel T., Hurst S.D.,
RA   Zurawski G., Leach M.W., Gorman D.M., Rennick D.M.;
RT   "IL-25 induces IL-4, IL-5, and IL-13 and Th2-associated pathologies in
RT   vivo.";
RL   Immunity 15:985-995(2001). Dec
RN   [3]
RP   NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 2).
RC   TISSUE=Testis;
RX   MEDLINE=22224358; PubMed=12239140; DOI=10.1182/blood-2002-01-0012;
RA   Kim M.R., Manoukian R., Yeh R., Silbiger S.M., Danilenko D.M.,
RA   Scully S., Sun J., DeRose M.L., Stolina M., Chang D., Van G.Y.,
RA   Clarkin K., Nguyen H.Q., Yu Y.B., Jing S., Senaldi G., Elliott G.,
RA   Medlock E.S.;
RT   "Transgenic overexpression of human IL-17E results in eosinophilia, B-
RT   lymphocyte hyperplasia, and altered antibody production.";
RL   Blood 100:2330-2340(2002).
RN   [4]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RX   MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA   Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
RA   Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA   Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA   Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA   Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,
RA   Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA   Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,
RA   Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
RA   Wood W.I., Godowski P.J., Gray A.M.;
RT   "The secreted protein discovery initiative (SPDI), a large-scale
RT   effort to identify novel human secreted and transmembrane proteins: a
RT   bioinformatics assessment.";
RL   Genome Res. 13:2265-2270(2003).
RN   [5]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [6]
RP   PROTEIN SEQUENCE OF 33-47.
RX   PubMed=15340161; DOI=10.1110/ps.04682504;
RA   Zhang Z., Henzel W.J.;
RT   "Signal peptide prediction based on analysis of experimentally
RT   verified cleavage sites.";
RL   Protein Sci. 13:2819-2824(2004).
CC   -!- FUNCTION: Induces activation of NF-kappa-B and stimulates
CC       production of the proinflammatory chemokine IL-8. Proinflammatory
CC       cytokine favoring Th2-type immune responses.
CC   -!- SUBCELLULAR LOCATION: Secreted protein.
CC   -!- ALTERNATIVE PRODUCTS:
CC       Event=Alternative splicing; Named isoforms=2;
CC       Name=1;
CC         IsoId=Q9H293-1; Sequence=Displayed;
CC       Name=2;
CC         IsoId=Q9H293-2; Sequence=VSP_010159;
CC   -!- TISSUE SPECIFICITY: Expressed at low levels in several tissues,
CC       including brain, kidney, lung, prostate, testis, spinal cord,
CC       adrenal gland, and trachea.
CC   -!- SIMILARITY: Belongs to the IL-17 family.
CC   ---------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ---------------------------------------------------------------------
DR   EMBL; AF305200; AAG40848.1; -; mRNA.
DR   EMBL; AF458059; AAL57622.1; -; mRNA.
DR   EMBL; AF461739; AAN39038.1; -; mRNA.
DR   EMBL; AY359127; AAQ89484.1; -; mRNA.
DR   EMBL; BC069565; AAH69565.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSG00000166090; Homo sapiens.
DR   HGNC; HGNC:13765; IL17E.
DR   MIM; 605658; gene.
DR   GO; GO:0016020; C:membrane; NAS.
DR   GO; GO:0030380; F:interleukin-17E receptor binding; TAS.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
KW   Alternative splicing; Cytokine; Direct protein sequencing;
KW   Glycoprotein; Signal.
FT   SIGNAL       1     32
FT   CHAIN       33    177       Interleukin-17E.
FT                               /FTId=PRO_0000015431.
FT   CARBOHYD    136    136       N-linked (GlcNAc. . .) (Potential).
FT   DISULFID    110    168       By similarity.
FT   DISULFID    115    170       By similarity.
FT   VARSPLIC      1     18       MRERPRLGEDSSLISLFL -> MY (in isoform 2).
FT                               /FTId=VSP_010159.
FT   CONFLICT    177    177       G -> A (in Ref. 2).
SQ   SEQUENCE   177 AA;  20330 MW;  52D895710CD59871 CRC64;

  Query Match             100.0%;  Score 177;  DB 1;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 3.5e-187;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 2
Q2M3F0_HUMAN
ID   Q2M3F0_HUMAN   PRELIMINARY;   PRT;   161 AA.
AC   Q2M3F0;
DT   21-FEB-2006, integrated into UniProtKB/TrEMBL.
DT   21-FEB-2006, sequence version 1.
DT   21-FEB-2006, entry version 1.
DE   Interleukin 17E, isoform 2.
GN   Name=IL17E;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Pooled;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Pooled;
RG   NIH MGC Project;
RL   Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; BC104931; AAI04932.1; -; mRNA.
DR   EMBL; BC104929; AAI04930.1; -; mRNA.
SQ   SEQUENCE   161 AA;  18523 MW;  37685913FCFE151D CRC64;

  Query Match             89.8%;  Score 159;  DB 2;  Length 161;
  Best Local Similarity   100.0%;  Pred. No. 2.8e-167;
  Matches  159;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62

Qy         79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122

Qy        139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||
Db        123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161


RESULT 3
Q8VHC9_MOUSE
ID   Q8VHC9_MOUSE   PRELIMINARY;   PRT;   153 AA.
AC   Q8VHC9;
DT   01-MAR-2002, integrated into UniProtKB/TrEMBL.
DT   01-MAR-2002, sequence version 1.
DT   07-FEB-2006, entry version 15.
DE   Interleukin 17E (Fragment).
GN   Name=Il17e;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC   Muroidea; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=21571724; PubMed=11714825;
RA   Pan G., French D., Mao W., Maruoka M., Risser P., Lee J., Foster J.,
RA   Aggarwal S., Nicholes K., Guillet S., Schow P., Gurney A.L.;
RT   "Forced expression of murine IL-17E induces growth retardation,
RT   jaundice, a Th2-biased response, and multiorgan inflammation in
RT   mice.";
RL   J. Immunol. 167:6559-6567(2001).
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; AY034088; AAK59816.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSMUSG00000040770; Mus musculus.
DR   MGI; MGI:2155888; Il17e.
DR   GO; GO:0005615; C:extracellular space; RCA.
DR   GO; GO:0005125; F:cytokine activity; IDA.
DR   GO; GO:0030222; P:eosinophil differentiation; IDA.
DR   GO; GO:0006954; P:inflammatory response; IDA.
DR   GO; GO:0006954; P:inflammatory response; IMP.
DR   GO; GO:0009624; P:response to nematode; IDA.
DR   GO; GO:0009621; P:response to pathogenic fungi; IDA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
FT   CHAIN        <1    153       interleukin 17E.
FT   NON_TER       1      1
SQ   SEQUENCE   153 AA;  17456 MW;  A0EE897842E6EB39 CRC64;

  Query Match             14.1%;  Score 25;  DB 2;  Length 153;
  Best Local Similarity   100.0%;  Pred. No. 9.3e-19;
  Matches   25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        102 PQDLYHARCLCPHCVSLQTGSHMDP 126
              |||||||||||||||||||||||||
Db         78 PQDLYHARCLCPHCVSLQTGSHMDP 102


RESULT 4
Q8VHH8_MOUSE
ID   Q8VHH8_MOUSE   PRELIMINARY;   PRT;   169 AA.
AC   Q8VHH8;
DT   01-MAR-2002, integrated into UniProtKB/TrEMBL.
DT   01-MAR-2002, sequence version 1.
DT   07-FEB-2006, entry version 14.
DE   IL25.
GN   Name=Il17e;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC   Muroidea; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6;
RX   MEDLINE=21629216; PubMed=11754819; DOI=10.1016/S1074-7613(01)00243-6;
RA   Fort M.M., Cheung J., Yen D., Li J., Zurawski S.M., Lo S., Menon S.,
RA   Clifford T., Hunte B., Lesley R., Muchamuel T., Hurst S.D.,
RA   Zurawski G., Leach M.W., Gorman D.M., Rennick D.M.;
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RT   "IL-25 induces IL-4, IL-5, and IL-13 and Th2-associated pathologies in
RT   vivo.";
RL   Immunity 15:985-995(2001).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6;
RA   Hurst S.D., Muchamuel T., Gorman D.M., Gilbert J.M., Clifford T.,
RA   Kwan S., Menon S., Seymour B., Jackson C., Kung T., Brieland J.,
RA   Zurawski S.M., Chapman R., Zurawski G., Coffman R.L.;
RL   Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
CC   -----------------------------------------------------------------------
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CC   -----------------------------------------------------------------------
DR   EMBL; AF458060; AAL57623.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSMUSG00000040770; Mus musculus.
DR   MGI; MGI:2155888; Il17e.
DR   GO; GO:0005615; C:extracellular space; RCA.
DR   GO; GO:0005125; F:cytokine activity; IDA.
DR   GO; GO:0030222; P:eosinophil differentiation; IDA.
DR   GO; GO:0006954; P:inflammatory response; IMP.
DR   GO; GO:0006954; P:inflammatory response; IDA.
DR   GO; GO:0009624; P:response to nematode; IDA.
DR   GO; GO:0009621; P:response to pathogenic fungi; IDA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   169 AA;  19210 MW;  CFAD2CEDE452C94D CRC64;

  Query Match             14.1%;  Score 25;  DB 2;  Length 169;
  Best Local Similarity   100.0%;  Pred. No. 1e-18;
  Matches   25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        102 PQDLYHARCLCPHCVSLQTGSHMDP 126
              |||||||||||||||||||||||||
Db         94 PQDLYHARCLCPHCVSLQTGSHMDP 118


RESULT 5
Q5CTL2_CRYPV
ID   Q5CTL2_CRYPV   PRELIMINARY;   PRT;  1869 AA.
AC   Q5CTL2;
DT   12-APR-2005, integrated into UniProtKB/TrEMBL.
DT   12-APR-2005, sequence version 1.
DT   07-FEB-2006, entry version 4.
DE   Hypothetical protein.
GN   ORFNames=cgd2_2550;
OS   Cryptosporidium parvum.
OC   Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC   Cryptosporidiidae; Cryptosporidium.
OX   NCBI_TaxID=5807;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=Iowa type II;
RX   PubMed=15044751; DOI=10.1126/science.1094786;
RA   Abrahamsen M.S., Templeton T.J., Enomoto S., Abrahante J.E., Zhu G.,
RA   Lancto C.A., Deng M., Liu C., Widmer G., Tzipori S., Buck G.A., Xu P.,
RA   Bankier A.T., Dear P.H., Konfortov B.A., Spriggs H.F., Iyer L.,
RA   Anantharaman V., Aravind L., Kapur V.;
RT   "Complete genome sequence of the apicomplexan, Cryptosporidium
RT   parvum.";
RL   Science 304:441-445(2004).
CC   -!- CAUTION: The sequence shown here is derived from an
CC       EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC       preliminary data.
CC   -----------------------------------------------------------------------
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CC   -----------------------------------------------------------------------
DR   EMBL; AAEE01000005; EAK88747.1; -; Genomic_DNA.
DR   InterPro; IPR005479; CPSase_D2_ATP_bd.
DR   PROSITE; PS00867; CPSASE_2; UNKNOWN_1.
KW   Hypothetical protein.
SQ   SEQUENCE   1869 AA;  216714 MW;  305E8A137F605B88 CRC64;

  Query Match             5.1%;  Score 9;  DB 2;  Length 1869;
  Best Local Similarity   100.0%;  Pred. No. 5.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         10 DSSLISLFL 18
              |||||||||
Db       1821 DSSLISLFL 1829


RESULT 6
Q8LEY5_ARATH
ID   Q8LEY5_ARATH   PRELIMINARY;   PRT;   316 AA.
AC   Q8LEY5;
DT   01-OCT-2002, integrated into UniProtKB/TrEMBL.
DT   01-OCT-2002, sequence version 1.
DT   07-FEB-2006, entry version 12.
DE   Palmitoyl-protein thioesterase-like.
OS   Arabidopsis thaliana (Mouse-ear cress).
OC   Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC   Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
OC   rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
OX   NCBI_TaxID=3702;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=22088475; PubMed=12093376;
RA   Haas B.J., Volfovsky N., Town C.D., Troukhan M., Alexandrov N.,
RA   Feldmann K.A., Flavell R.B., White O., Salzberg S.L.;
RT   "Full-length messenger RNA sequences greatly improve genome
RT   annotation.";
RL   Genome Biol. 3:RESEARCH0029-RESEARCH0029(2002).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RA   Brover V., Troukhan M., Alexandrov N., Lu Y.-P., Flavell R.,
RA   Feldmann K.;
RL   Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
CC   -----------------------------------------------------------------------
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CC   -----------------------------------------------------------------------
DR   EMBL; AY085151; AAM61704.1; -; mRNA.
DR   HSSP; P45478; 1EI9.
DR   GO; GO:0008474; F:palmitoyl-(protein) hydrolase activity; IEA.
DR   GO; GO:0006464; P:protein modification; IEA.
DR   InterPro; IPR002472; Palm_thioest.
DR   PANTHER; PTHR11247; Palm_thioest; 1.
DR   Pfam; PF02089; Palm_thioest; 1.
DR   PRINTS; PR00414; PPTHIESTRASE.
SQ   SEQUENCE   316 AA;  34674 MW;  070077D11B67C373 CRC64;

  Query Match             4.5%;  Score 8;  DB 2;  Length 316;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         20 VVAFLAMV 27
              ||||||||
Db         13 VVAFLAMV 20


RESULT 7
Q9LVS4_ARATH
ID   Q9LVS4_ARATH   PRELIMINARY;   PRT;   316 AA.
AC   Q9LVS4;
DT   01-OCT-2000, integrated into UniProtKB/TrEMBL.
DT   01-OCT-2000, sequence version 1.
DT   07-FEB-2006, entry version 17.
DE   Palmitoyl-protein thioesterase-like (Hypothetical protein At5g47350).
GN   OrderedLocusNames=At5g47350;
OS   Arabidopsis thaliana (Mouse-ear cress).
OC   Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC   Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
OC   rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
```

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OX   NCBI_TaxID=3702;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=20181125; PubMed=10718197; DOI=10.1093/dnares/7.1.31;
RA   Sato S., Nakamura Y., Kaneko T., Katoh T., Asamizu E., Kotani H.,
RA   Tabata S.;
RT   "Structural analysis of Arabidopsis thaliana chromosome 5. X. Sequence
RT   features of the regions of 3,076,755 bp covered by sixty P1 and TAC
RT   clones.";
RL   DNA Res. 7:31-63(2000).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RA   Southwick A., Karlin-Neumann G., Nguyen M., Lam B., Miranda M.,
RA   Palm C.J., Bowser L., Jones T., Banh J., Carninci P., Chen H.,
RA   Cheuk R., Chung M.K., Hayashizaki Y., Ishida J., Kamiya A., Kawai J.,
RA   Kim C., Lin J., Liu S.X., Narusaka M., Pham P.K., Sakano H.,
RA   Sakurai T., Satou M., Seki M., Shinn P., Yamada K., Shinozaki K.,
RA   Ecker J., Theologis A., Davis R.W.;
RL   Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
RN   [3]
RP   NUCLEOTIDE SEQUENCE.
RA   Tripp M., Southwick A., Karlin-Neumann G., Nguyen M., Miranda M.,
RA   Palm C.J., Bowser L., Jones T., Banh J., Carninci P., Chen H.,
RA   Cheuk R., Chung M.K., Hayashizaki Y., Ishida J., Kamiya A., Kawai J.,
RA   Kim C., Lin J., Liu S.X., Narusaka M., Pham P.K., Sakano H.,
RA   Sakurai T., Satou M., Seki M., Shinn P., Yamada K., Shinozaki K.,
RA   Ecker J., Theologis A., Davis R.W.;
RL   Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
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DR   EMBL; AB018117; BAA97169.1; -; Genomic_DNA.
DR   EMBL; AY093073; AAM13072.1; -; mRNA.
DR   EMBL; AY128772; AAM91172.1; -; mRNA.
DR   HSSP; P45478; 1EI9.
DR   TAIR; At5g47350; -.
DR   GO; GO:0008474; F:palmitoyl-(protein) hydrolase activity; IEA.
DR   GO; GO:0006464; P:protein modification; IEA.
DR   InterPro; IPR002472; Palm_thioest.
DR   PANTHER; PTHR11247; Palm_thioest; 1.
DR   Pfam; PF02089; Palm_thioest; 1.
DR   PRINTS; PR00414; PPTHIESTRASE.
KW   Hypothetical protein.
SQ   SEQUENCE   316 AA;  34696 MW;  7548EA4E0E2DD12D CRC64;

  Query Match             4.5%;  Score 8;  DB 2;  Length 316;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         20 VVAFLAMV 27
              ||||||||
Db         13 VVAFLAMV 20


RESULT 8
Q88YJ0_LACPL
ID   Q88YJ0_LACPL   PRELIMINARY;   PRT;   398 AA.
AC   Q88YJ0;
DT   01-JUN-2003, integrated into UniProtKB/TrEMBL.
DT   01-JUN-2003, sequence version 1.
DT   21-FEB-2006, entry version 19.
DE   Multidrug transport protein.
GN   OrderedLocusNames=lp_0770;
OS   Lactobacillus plantarum.
OC   Bacteria; Firmicutes; Lactobacillales; Lactobacillaceae;
OC   Lactobacillus.
OX   NCBI_TaxID=1590;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC   STRAIN=NCIMB 8826 / WCFS1;
RX   MEDLINE=22480296; PubMed=12566566; DOI=10.1073/pnas.0337704100;
RA   Kleerebezem M., Boekhorst J., van Kranenburg R., Molenaar D.,
RA   Kuipers O.P., Leer R., Tarchini R., Peters S.A., Sandbrink H.M.,
RA   Fiers M.W.E.J., Stiekema W., Klein Lankhorst R.M., Bron P.A.,
RA   Hoffer S.M., Nierop Groot M.N., Kerkhoven R., De Vries M., Ursing B.,
RA   De Vos W.M., Siezen R.J.;
RT   "Complete genome sequence of Lactobacillus plantarum WCFS1.";
RL   Proc. Natl. Acad. Sci. U.S.A. 100:1990-1995(2003).
CC   -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein (By
CC       similarity).
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CC   ---------------------------------------------------------------------
DR   EMBL; AL935254; CAD63361.1; -; Genomic_DNA.
DR   BioCyc; LPLA220668:LP_0770-MONOMER; -.
DR   GO; GO:0016021; C:integral to membrane; IEA.
DR   GO; GO:0016020; C:membrane; IEA.
DR   GO; GO:0015520; F:tetracycline:hydrogen antiporter activity; IEA.
DR   GO; GO:0005215; F:transporter activity; IEA.
DR   GO; GO:0015904; P:tetracycline transport; IEA.
DR   GO; GO:0006810; P:transport; IEA.
DR   InterPro; IPR007114; MFS.
DR   InterPro; IPR011701; MFS_1.
DR   InterPro; IPR005829; Sug_transporter.
DR   InterPro; IPR001958; TCR_TetA.
DR   Pfam; PF07690; MFS_1; 1.
DR   PRINTS; PR01035; TCRTETA.
DR   PROSITE; PS50850; MFS; 1.
DR   PROSITE; PS00216; SUGAR_TRANSPORT_1; 1.
KW   Complete proteome; Membrane; Transmembrane; Transport.
SQ   SEQUENCE   398 AA;  43350 MW;  C770B9751A5BE391 CRC64;

  Query Match             4.5%;  Score 8;  DB 2;  Length 398;
  Best Local Similarity   100.0%;  Pred. No. 17;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         13 LISLFLQV 20
              ||||||||
Db        259 LISLFLQV 266


RESULT 9
Q40LM7_DESAC
ID   Q40LM7_DESAC   PRELIMINARY;   PRT;   432 AA.
AC   Q40LM7;
DT   27-SEP-2005, integrated into UniProtKB/TrEMBL.
DT   27-SEP-2005, sequence version 1.
DT   07-FEB-2006, entry version 3.
DE   Hypothetical protein precursor.
GN   ORFNames=DaceDRAFT_0723;
OS   Desulfuromonas acetoxidans DSM 684.
OC   Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales;
OC   Desulfuromonadaceae; Desulfuromonas.
OX   NCBI_TaxID=281689;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=DSM 684;
RG   US DOE Joint Genome Institute (JGI-PGF);
RA   Copeland A., Lucas S., Lapidus A., Barry K., Detter C., Glavina T.,
RA   Hammon N., Israni S., Pitluck S., Richardson P.;
RT   "Sequencing of the draft genome and assembly of Desulfuromonas
RT   acetoxidans DSM 684.";
RL   Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=DSM 684;
RG   US DOE Joint Genome Institute (JGI-ORNL);
RA   Larimer F., Land M.;
RT   "Annotation of the draft genome assembly of Desulfuromonas acetoxidans
RT   DSM 684.";
RL   Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
CC   -!- CAUTION: The sequence shown here is derived from an
CC       EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC       preliminary data.
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CC   ----------------------------------------------------------------------
DR   EMBL; AAEW01000100; EAM69980.1; -; Genomic_DNA.
KW   Hypothetical protein; Signal.
FT   SIGNAL        1     30       Potential.
SQ   SEQUENCE   432 AA;  46897 MW;  748EC30DBB5217E5 CRC64;

  Query Match             4.5%;  Score 8;  DB 2;  Length 432;
  Best Local Similarity   100.0%;  Pred. No. 18;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLG 8
              ||||||||
Db        275 MRERPRLG 282


RESULT 10
YP67_CAEEL
ID   YP67_CAEEL     STANDARD;      PRT;   895 AA.
AC   Q09216;
DT   01-NOV-1997, integrated into UniProtKB/Swiss-Prot.
DT   11-JUL-2002, sequence version 2.
DT   07-FEB-2006, entry version 29.
DE   Hypothetical protein B0495.7 in chromosome II.
GN   ORFNames=B0495.7;
OS   Caenorhabditis elegans.
OC   Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC   Rhabditidae; Peloderinae; Caenorhabditis.
OX   NCBI_TaxID=6239;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC   STRAIN=Bristol N2;
RX   MEDLINE=99069613; PubMed=9851916; DOI=10.1126/science.282.5396.2012;
RG   The C. elegans sequencing consortium;
RT   "Genome sequence of the nematode C. elegans: a platform for
RT   investigating biology.";
RL   Science 282:2012-2018(1998).
RN   [2]
RP   SEQUENCE REVISION.
RG   WormBase consortium;
RL   Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
CC   -!- SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein
CC       (Potential).
CC   ----------------------------------------------------------------------
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CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ----------------------------------------------------------------------
DR   EMBL; U21317; AAA62526.2; -; Genomic_DNA.
DR   Ensembl; B0495.7; Caenorhabditis elegans.
DR   WormBase; WBGene00015206; B0495.7.
DR   WormPep; B0495.7; CE29550.
DR   InterPro; IPR007484; Peptidase_M28.
DR   Pfam; PF04389; Peptidase_M28; 1.
KW   Complete proteome; Hypothetical protein; Membrane; Transmembrane.
FT   CHAIN         1    895       Hypothetical protein B0495.7 in
FT                                chromosome II.
FT                                /FTId=PRO_0000065088.
FT   TRANSMEM     35     55       Potential.
FT   TRANSMEM    424    444       Potential.
FT   TRANSMEM    453    473       Potential.
FT   TRANSMEM    493    513       Potential.
FT   TRANSMEM    545    565       Potential.
FT   TRANSMEM    588    608       Potential.
FT   TRANSMEM    614    634       Potential.
SQ   SEQUENCE   895 AA;  102122 MW;  C0F3081A64E7AD1E CRC64;

  Query Match             4.5%;  Score 8;  DB 1;  Length 895;
  Best Local Similarity   100.0%;  Pred. No. 37;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         20 VVAFLAMV 27
              ||||||||
Db        424 VVAFLAMV 431


RESULT 11
Q8R7Z4_THETN
ID   Q8R7Z4_THETN   PRELIMINARY;   PRT;    75 AA.
AC   Q8R7Z4;
DT   01-JUN-2002, integrated into UniProtKB/TrEMBL.
DT   01-JUN-2002, sequence version 1.
DT   07-FEB-2006, entry version 11.
DE   Hypothetical protein.
GN   OrderedLocusNames=TTE2246;
OS   Thermoanaerobacter tengcongensis.
OC   Bacteria; Firmicutes; Clostridia; Thermoanaerobacteriales;
OC   Thermoanaerobacteriaceae; Thermoanaerobacter.
OX   NCBI_TaxID=119072;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC   STRAIN=MB4 / JCM 11007;
RX   MEDLINE=21992816; PubMed=11997336; DOI=10.1101/gr.219302;
RA   Bao Q., Tian Y., Li W., Xu Z., Xuan Z., Hu S., Dong W., Yang J.,
RA   Chen Y., Xue Y., Xu Y., Lai X., Huang L., Dong X., Ma Y., Ling L.,
RA   Tan H., Chen R., Wang J., Yu J., Yang H.;
RT   "A complete sequence of the T. tengcongensis genome.";
RL   Genome Res. 12:689-700(2002).
CC   ----------------------------------------------------------------------
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CC   ----------------------------------------------------------------------
DR   EMBL; AE013168; AAM25395.1; -; Genomic_DNA.
DR   BioCyc; TTEN119072:TTE2246-MONOMER; -.
KW   Complete proteome.
SQ   SEQUENCE   75 AA;  8329 MW;  E1C1F6D5F0541D9A CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 75;
  Best Local Similarity   100.0%;  Pred. No. 41;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db         57 SLISLFL 63


RESULT 12
Q2MFK6_STRTN
ID   Q2MFK6_STRTN   PRELIMINARY;   PRT;    84 AA.
AC   Q2MFK6;
DT   21-FEB-2006, integrated into UniProtKB/TrEMBL.
DT   21-FEB-2006, sequence version 1.
DT   21-FEB-2006, entry version 1.
DE   Putative transposase.
GN   Name=tatC;
OS   Streptomyces sp. DSM 40477.
OC   Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC   Streptomycineae; Streptomycetaceae; Streptomyces.
OX   NCBI_TaxID=265180;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=DSM 40477;
RA   Aboshanab K.M., Schmidt-Beissner H., Wehmeier U.F., Welzel K.,
RA   Vente A., Piepersberg W.;
RT   "Comparison of the "mixed" gene clusters for the biosynthesis of the
RT   aminoglycoside antibiotics apramycin (Streptomyces tenebrarius DSM
RT   40477) and hygromycin B (Streptomyces hygroscopicus subsp.
RT   hygroscopicus DSM 40578), which contain genes related to both the
RT   biosynthesis of other aminoglycosides and cell-wall sugars.";
RL   Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
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CC   ----------------------------------------------------------------------
DR   EMBL; AJ629123; CAF33035.1; -; Genomic_DNA.
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SQ   SEQUENCE   84 AA;  9006 MW;  5774924451CE98EA CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 84;
  Best Local Similarity   100.0%;  Pred. No. 46;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 ERPRLGE 9
              |||||||
Db         57 ERPRLGE 63


RESULT 13
Q7SXM1_BRARE
ID   Q7SXM1_BRARE   PRELIMINARY;   PRT;    86 AA.
AC   Q7SXM1;
DT   01-OCT-2003, integrated into UniProtKB/TrEMBL.
DT   01-OCT-2003, sequence version 1.
DT   07-FEB-2006, entry version 13.
DE   Hypothetical protein zgc:66195.
GN   ORFNames=zgc:66195;
OS   Brachydanio rerio (Zebrafish) (Danio rerio).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC   Cyprinidae; Danio.
OX   NCBI_TaxID=7955;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Whole body;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Whole body;
RG   NIH MGC Project;
RL   Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
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CC   ---------------------------------------------------------------------
DR   EMBL; BC055540; AAH55540.1; -; mRNA.
DR   SMR; Q7SXM1; 8-86.
DR   Ensembl; ENSDARG00000037860; Danio rerio.
DR   ZFIN; ZDB-GENE-040426-1566; zgc:66195.
DR   GO; GO:0005739; C:mitochondrion; IEA.
DR   GO; GO:0004129; F:cytochrome-c oxidase activity; IEA.
DR   GO; GO:0006118; P:electron transport; IEA.
DR   InterPro; IPR003213; Cyt_c_ox6B.
DR   PANTHER; PTHR11387; Cyt_c_ox6B; 1.
DR   Pfam; PF02297; COX6B; 1.
DR   ProDom; PD015172; Cyt_c_ox6B; 1.
KW   Hypothetical protein.
SQ   SEQUENCE   86 AA;  10087 MW;  DB876877BA3BDE62 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 86;
  Best Local Similarity   100.0%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         42 SKGQDTS 48
              |||||||
Db         46 SKGQDTS 52


RESULT 14
Q74J51_LACJO
ID   Q74J51_LACJO   PRELIMINARY;   PRT;   100 AA.
AC   Q74J51;
DT   05-JUL-2004, integrated into UniProtKB/TrEMBL.
DT   05-JUL-2004, sequence version 1.
DT   07-FEB-2006, entry version 11.
DE   Hypothetical protein.
GN   OrderedLocusNames=LJ1259; ORFNames=LJ_1259;
OS   Lactobacillus johnsonii.
OC   Bacteria; Firmicutes; Lactobacillales; Lactobacillaceae;
OC   Lactobacillus.
OX   NCBI_TaxID=33959;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC   STRAIN=NCC 533;
RX   PubMed=14983040; DOI=10.1073/pnas.0307327101;
RA   Pridmore R.D., Berger B., Desiere F., Vilanova D., Barretto C.,
RA   Pittet A.-C., Zwahlen M.-C., Rouvet M., Altermann E., Barrangou R.,
RA   Mollet B., Mercenier A., Klaenhammer T., Arigoni F., Schell M.A.;
RT   "The genome sequence of the probiotic intestinal bacterium
RT   Lactobacillus johnsonii NCC 533.";
RL   Proc. Natl. Acad. Sci. U.S.A. 101:2512-2517(2004).
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CC   ---------------------------------------------------------------------
DR   EMBL; AE017198; AAS09080.1; -; Genomic_DNA.
DR   BioCyc; LJOH257314:LJ1259-MONOMER; -.
KW   Complete proteome; Hypothetical protein.
SQ   SEQUENCE   100 AA;  11645 MW;  A8C01849D52919D2 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 100;
  Best Local Similarity   100.0%;  Pred. No. 55;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         14 ISLFLQV 20
              |||||||
Db         23 ISLFLQV 29


RESULT 15
Q47EA5_DECAR
ID   Q47EA5_DECAR   PRELIMINARY;   PRT;   101 AA.
AC   Q47EA5;
DT   13-SEP-2005, integrated into UniProtKB/TrEMBL.
DT   13-SEP-2005, sequence version 1.
DT   07-FEB-2006, entry version 4.
DE   Hypothetical protein.
GN   OrderedLocusNames=Daro_2082;
OS   Dechloromonas aromatica (strain RCB).
OC   Bacteria; Proteobacteria; Betaproteobacteria; Rhodocyclales;
OC   Rhodocyclaceae; Dechloromonas.
OX   NCBI_TaxID=159087;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RA   Copeland A., Lucas S., Lapidus A., Barry K., Detter J.C., Glavina T.,
RA   Hammon N., Israni S., Pitluck S., Di Bartolo G., Trong S., Kellar K.,
RA   Schmutz J., Larimer F., Land M., Ivanova N., Richardson P.;
RT   "Complete sequence of Dechloromonas aromatica RCB.";
RL   Submitted (AUG-2005) to the EMBL/GenBank/DDBJ databases.
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DR   EMBL; CP000089; AAZ46826.1; -; Genomic_DNA.
KW   Complete proteome; Hypothetical protein.
SQ   SEQUENCE   101 AA;  10082 MW;  D5EA33A8787C33BE CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 101;
  Best Local Similarity   100.0%;  Pred. No. 55;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         58 PVPPLEP 64
              |||||||
Db         23 PVPPLEP 29


RESULT 16
Q8BNA0_MOUSE
ID   Q8BNA0_MOUSE   PRELIMINARY;   PRT;   106 AA.
AC   Q8BNA0;
DT   01-MAR-2003, integrated into UniProtKB/TrEMBL.
DT   01-MAR-2003, sequence version 1.
DT   07-FEB-2006, entry version 19.
DE   12 days embryo eyeball cDNA, RIKEN full-length enriched library,
DE   clone:D230018M15 product:hypothetical Cyclin-like containing protein,
DE   full insert sequence.
GN   Name=Fbxl7; Synonyms=D230018M15Rik;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC   Muroidea; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RX   MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA   Carninci P., Hayashizaki Y.;
RT   "High-efficiency full-length cDNA cloning.";
RL   Methods Enzymol. 303:19-44(1999).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RX   PubMed=16141072; DOI=10.1126/science.1112014;
RA   Carninci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda N.,
RA   Oyama R., Ravasi T., Lenhard B., Wells C., Kodzius R., Shimokawa K.,
RA   Bajic V.B., Brenner S.E., Batalov S., Forrest A.R., Zavolan M.,
RA   Davis M.J., Wilming L.G., Aidinis V., Allen J.E.,
RA   Ambesi-Impiombato A., Apweiler R., Aturaliya R.N., Bailey T.L.,
RA   Bansal M., Baxter L., Beisel K.W., Bersano T., Bono H., Chalk A.M.,
RA   Chiu K.P., Choudhary V., Christoffels A., Clutterbuck D.R.,
RA   Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,
RA   di Bernardo D., Down T., Engstrom P., Fagiolini M., Faulkner G.,
RA   Fletcher C.F., Fukushima T., Furuno M., Futaki S., Gariboldi M.,
RA   Georgii-Hemming P., Gingeras T.R., Gojobori T., Green R.E.,
RA   Gustincich S., Harbers M., Hayashi Y., Hensch T.K., Hirokawa N.,
RA   Hill D., Huminiecki L., Iacono M., Ikeo K., Iwama A., Ishikawa T.,
RA   Jakt M., Kanapin A., Katoh M., Kawasawa Y., Kelso J., Kitamura H.,
RA   Kitano H., Kollias G., Krishnan S.P., Kruger A., Kummerfeld S.K.,
RA   Kurochkin I.V., Lareau L.F., Lazarevic D., Lipovich L., Liu J.,
RA   Liuni S., McWilliam S., Madan Babu M., Madera M., Marchionni L.,
RA   Matsuda H., Matsuzawa S., Miki H., Mignone F., Miyake S., Morris K.,
RA   Mottagui-Tabar S., Mulder N., Nakano N., Nakauchi H., Ng P.,
RA   Nilsson R., Nishiguchi S., Nishikawa S., Nori F., Ohara O.,
RA   Okazaki Y., Orlando V., Pang K.C., Pavan W.J., Pavesi G., Pesole G.,
RA   Petrovsky N., Piazza S., Reed J., Reid J.F., Ring B.Z., Ringwald M.,
RA   Rost B., Ruan Y., Salzberg S.L., Sandelin A., Schneider C.,
RA   Schonbach C., Sekiguchi K., Semple C.A., Seno S., Sessa L., Sheng Y.,
RA   Shibata Y., Shimada H., Shimada K., Silva D., Sinclair B.,
RA   Sperling S., Stupka E., Sugiura K., Sultana R., Takenaka Y., Taki K.,
RA   Tammoja K., Tan S.L., Tang S., Taylor M.S., Tegner J., Teichmann S.A.,
RA   Ueda H.R., van Nimwegen E., Verardo R., Wei C.L., Yagi K.,
RA   Yamanishi H., Zabarovsky E., Zhu S., Zimmer A., Hide W., Bult C.,
RA   Grimmond S.M., Teasdale R.D., Liu E.T., Brusic V., Quackenbush J.,
RA   Wahlestedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,
RA   Fukuda S., Kanamori-Katayama M., Suzuki M., Aoki J., Arakawa T.,
RA   Iida J., Imamura K., Itoh M., Kato T., Kawaji H., Kawagashira N.,
RA   Kawashima T., Kojima M., Kondo S., Konno H., Nakano K., Ninomiya N.,
RA   Nishio T., Okada M., Plessy C., Shibata K., Shiraki T., Suzuki S.,
RA   Tagami M., Waki K., Watahiki A., Okamura-Oho Y., Suzuki H., Kawai J.,
RA   Hayashizaki Y.;
RT   "The transcriptional landscape of the mammalian genome.";
RL   Science 309:1559-1563(2005).
RN   [3]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RX   PubMed=16141073; DOI=10.1126/science.1112009;
RG   RIKEN Genome Exploration Research Group, and Genome Science Group
RG   (Genome Network Core Team) and the FANTOM Consortium;
RT   "Antisense Transcription in the Mammalian Transcriptome.";
RL   Science 309:1564-1566(2005).
RN   [4]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RX   MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
RA   Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
RA   Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
RA   Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
RA   Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA   Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA   Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA   Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
RA   Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA   Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA   Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA   Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA   Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
RA   Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA   Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA   Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA   Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RA   Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA   Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA   Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA   Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA   Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA   Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
RA   Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
RA   Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
RA   Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA   Birney E., Hayashizaki Y.;
RT   "Analysis of the mouse transcriptome based on functional annotation of
RT   60,770 full-length cDNAs.";
RL   Nature 420:563-573(2002).
RN   [5]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RX   MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA   Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA   Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA   Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA   Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA   Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA   Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA   Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA   Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA   Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA   Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA   Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA   Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA   Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA   Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA   Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA   Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA   Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
RA   Hayashizaki Y.;
RT   "Functional annotation of a full-length mouse cDNA collection.";
RL   Nature 409:685-690(2001).
RN   [6]
RP   NUCLEOTIDE SEQUENCE.
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RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RX   MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA   Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA   Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT   "Normalization and subtraction of cap-trapper-selected cDNAs to
RT   prepare full-length cDNA libraries for rapid discovery of new genes.";
RL   Genome Res. 10:1617-1630(2000).
RN   [7]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RX   MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA   Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA   Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M.,
RA   Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA   Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA   Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
RA   Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA   Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT   "RIKEN integrated sequence analysis (RISA) system-384-format
RT   sequencing pipeline with 384 multicapillary sequencer.";
RL   Genome Res. 10:1757-1771(2000).
RN   [8]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6J; TISSUE=Eyeball;
RA   Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,
RA   Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,
RA   Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,
RA   Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,
RA   Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,
RA   Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,
RA   Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,
RA   Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
RA   Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,
RA   Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,
RA   Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;
RL   Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
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CC   ---------------------------------------------------------------------
DR   EMBL; AK084297; BAC39158.1; -; mRNA.
DR   MGI; MGI:2442376; D230018M15Rik.
DR   MGI; MGI:3052506; Fbxl7.
KW   Cyclin; Hypothetical protein.
SQ   SEQUENCE   106 AA;  12146 MW;  5678FEF240FD31DD CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 106;
  Best Local Similarity   100.0%;  Pred. No. 58;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        163 RVSLACV 169
              |||||||
Db          8 RVSLACV 14


RESULT 17
Q4PNH6_9BACT
ID   Q4PNH6_9BACT   PRELIMINARY;   PRT;   120 AA.
AC   Q4PNH6;
DT   19-JUL-2005, integrated into UniProtKB/TrEMBL.
DT   19-JUL-2005, sequence version 1.
DT   07-FEB-2006, entry version 5.
DE   Putative molybdopterin converting factor large subunit.
OS   uncultured marine bacterium 66A03.
OC   Bacteria; environmental samples.
OX   NCBI_TaxID=331677;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RX   PubMed=16008504;
RA   Sabehi G., Loy A., Jung K.H., Partha R., Spudich J.L., Isaacson T.,
RA   Hirschberg J., Wagner M., Beja O.;
RT   "New insights into metabolic properties of marine bacteria encoding
RT   proteorhodopsins.";
RL   PLoS Biol. 3:E273-E273(2005).
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CC   ---------------------------------------------------------------------
DR   EMBL; DQ065755; AAY68323.1; -; Genomic_DNA.
DR   GO; GO:0006777; P:Mo-molybdopterin cofactor biosynthesis; IEA.
DR   InterPro; IPR003448; Mb_biosynth_MoaE.
DR   PANTHER; PTHR10311; Mb_biosynth_MoaE; 1.
DR   Pfam; PF02391; MoaE; 1.
SQ   SEQUENCE   120 AA;  13805 MW;  9B762D82C2051AE7 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 120;
  Best Local Similarity   100.0%;  Pred. No. 66;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         10 DSSLISL 16
              |||||||
Db          8 DSSLISL 14


RESULT 18
Q5C8N2_9ADEN
ID   Q5C8N2_9ADEN   PRELIMINARY;   PRT;   120 AA.
AC   Q5C8N2;
DT   12-APR-2005, integrated into UniProtKB/TrEMBL.
DT   12-APR-2005, sequence version 1.
DT   07-FEB-2006, entry version 5.
DE   E4 ORF4.
OS   Simian adenovirus 1.
OC   Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus.
OX   NCBI_TaxID=310540;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=ATCC VR-195;
RX   PubMed=15914845; DOI=10.1099/vir.0.80757-0;
RA   Kovacs G.M., Harrach B., Zakhartchouk A.N., Davison A.J.;
RT   "Complete genome sequence of simian adenovirus 1: an Old World monkey
RT   adenovirus with two fiber genes.";
RL   J. Gen. Virol. 86:1681-1686(2005).
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CC   ---------------------------------------------------------------------
DR   EMBL; AY771780; AAX19425.1; -; Genomic_DNA.
DR   InterPro; IPR008680; M_adenovirusE4.
DR   Pfam; PF05385; Adeno_E4; 1.
SQ   SEQUENCE   120 AA;  14340 MW;  9E66D988D2C1DA96 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 120;
  Best Local Similarity   100.0%;  Pred. No. 66;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        116 VSLQTGS 122
              |||||||
Db        105 VSLQTGS 111


RESULT 19
Q35Q42_9BRAD
ID   Q35Q42_9BRAD   PRELIMINARY;   PRT;   129 AA.
AC   Q35Q42;
DT   06-DEC-2005, integrated into UniProtKB/TrEMBL.
DT   06-DEC-2005, sequence version 1.
DT   07-FEB-2006, entry version 3.
DE   Protocatechuate 4,5-dioxygenase (EC 1.13.11.8).
GN   ORFNames=BradDRAFT_6516;
OS   Bradyrhizobium sp. BTAi1.
OC   Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
OC   Bradyrhizobiaceae; Bradyrhizobium.
OX   NCBI_TaxID=288000;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
```

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RC   STRAIN=BTAi1;
RG   US DOE Joint Genome Institute (JGI-PGF);
RA   Copeland A., Lucas S., Lapidus A., Barry K., Detter J.C., Glavina T.,
RA   Hammon N., Israni S., Pitluck S., Richardson P.;
RT   "Sequencing of the draft genome and assembly of Bradyrhizobium sp
RT   BTAi1.";
RL   Submitted (OCT-2005) to the EMBL/GenBank/DDBJ databases.
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=BTAi1;
RG   US DOE Joint Genome Institute (JGI-ORNL);
RA   Larimer F., Land M.;
RT   "Annotation of the draft genome of Bradyrhizobium sp. BTAi1.";
RL   Submitted (NOV-2005) to the EMBL/GenBank/DDBJ databases.
CC   -!- CAUTION: The sequence shown here is derived from an
CC       EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC       preliminary data.
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CC   ---------------------------------------------------------------------
DR   EMBL; AALJ01000001; EAP31965.1; -; Genomic_DNA.
DR   GO; GO:0016491; F:oxidoreductase activity; IEA.
DR   GO; GO:0018579; F:protocatechuate 4,5-dioxygenase activity; IEA.
KW   Dioxygenase; Oxidoreductase.
SQ   SEQUENCE   129 AA;  14673 MW;  C31AAFC70910BCA6 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 129;
  Best Local Similarity   100.0%;  Pred. No. 71;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         94 LDRDLNR 100
              |||||||
Db         65 LDRDLNR 71


RESULT 20
Q2J1S6_RHOPA
ID   Q2J1S6_RHOPA   PRELIMINARY;   PRT;   129 AA.
AC   Q2J1S6;
DT   07-MAR-2006, integrated into UniProtKB/TrEMBL.
DT   07-MAR-2006, sequence version 1.
DT   07-MAR-2006, entry version 1.
DE   Protocatechuate 4,5-dioxygenase (EC 1.13.11.8).
GN   ORFNames=RPB_0873;
OS   Rhodopseudomonas palustris HaA2.
OC   Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
OC   Bradyrhizobiaceae; Rhodopseudomonas.
OX   NCBI_TaxID=316058;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=HaA2;
RG   US DOE Joint Genome Institute;
RA   Copeland A., Lucas S., Lapidus A., Barry K., Detter J.C., Glavina T.,
RA   Hammon N., Israni S., Pitluck S., Chain P., Malfatti S., Shin M.,
RA   Vergez L., Schmutz J., Larimer F., Land M., Hauser L., Pelletier D.A.,
RA   Kyrpides N., Anderson I., Oda Y., Harwood C.S., Richardson P.;
RT   "Complete sequence of Rhodopseudomonas palustris HaA2.";
RL   Submitted (JAN-2006) to the EMBL/GenBank/DDBJ databases.
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DR   EMBL; CP000250; ABD05584.1; -; Genomic_DNA.
KW   Dioxygenase; Oxidoreductase.
SQ   SEQUENCE   129 AA;  14690 MW;  99B1A3C6C856CB07 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 129;
  Best Local Similarity   100.0%;  Pred. No. 71;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         94 LDRDLNR 100
              |||||||
Db         65 LDRDLNR 71


RESULT 21
Q6N0R0_RHOPA
ID   Q6N0R0_RHOPA   PRELIMINARY;   PRT;   129 AA.
AC   Q6N0R0;
DT   05-JUL-2004, integrated into UniProtKB/TrEMBL.
DT   05-JUL-2004, sequence version 1.
DT   07-FEB-2006, entry version 9.
DE   Protocatechuate 4,5-dioxygenase, alpha chain (EC 1.13.11.8).
GN   Name=ligA; OrderedLocusNames=RPA4701;
OS   Rhodopseudomonas palustris.
OC   Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
OC   Bradyrhizobiaceae; Rhodopseudomonas.
OX   NCBI_TaxID=1076;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC   STRAIN=CGA009 / ATCC BAA-98;
RX   PubMed=14704707; DOI=10.1038/nbt923;
RA   Larimer F.W., Chain P., Hauser L., Lamerdin J.E., Malfatti S., Do L.,
RA   Land M.L., Pelletier D.A., Beatty J.T., Lang A.S., Tabita F.R.,
RA   Gibson J.L., Hanson T.E., Bobst C., Torres y Torres J.L., Peres C.,
RA   Harrison F.H., Gibson J., Harwood C.S.;
RT   "Complete genome sequence of the metabolically versatile
RT   photosynthetic bacterium Rhodopseudomonas palustris.";
RL   Nat. Biotechnol. 22:55-61(2004).
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DR   EMBL; BX572608; CAE30141.1; -; Genomic_DNA.
DR   HSSP; P22635; 1B4U.
DR   BioCyc; RPAL258594:RPA4701-MONOMER; -.
DR   GO; GO:0016491; F:oxidoreductase activity; IEA.
DR   GO; GO:0018579; F:protocatechuate 4,5-dioxygenase activity; IEA.
DR   InterPro; IPR011986; Xdiol_dOase_LigA.
DR   Pfam; PF07746; LigA; 1.
KW   Complete proteome; Dioxygenase; Oxidoreductase.
SQ   SEQUENCE   129 AA;  14675 MW;  47777121A31F76BB CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 129;
  Best Local Similarity   100.0%;  Pred. No. 71;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         94 LDRDLNR 100
              |||||||
Db         65 LDRDLNR 71


RESULT 22
Q3XYN6_ENTFC
ID   Q3XYN6_ENTFC   PRELIMINARY;   PRT;   135 AA.
AC   Q3XYN6;
DT   11-OCT-2005, integrated into UniProtKB/TrEMBL.
DT   11-OCT-2005, sequence version 1.
DT   07-FEB-2006, entry version 3.
DE   PTS system fructose subfamily IIA component.
GN   ORFNames=EfaeDRAFT_0625;
OS   Enterococcus faecium DO.
OC   Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
OX   NCBI_TaxID=333849;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=DO;
RG   US DOE Joint Genome Institute (JGI-PGF);
RA   Copeland A., Lucas S., Lapidus A., Barry K., Detter C., Glavina T.,
RA   Hammon N., Israni S., Pitluck S., Richardson P.;
RT   "Sequencing of the draft genome and assembly of Enterococcus faecium
RT   DO.";
RL   Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
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RC   STRAIN=DO;
RG   US DOE Joint Genome Institute (JGI-ORNL);
RA   Larimer F., Land M.;
RT   "Annotation of the draft genome assembly of Enterococcus faecium DO.";
RL   Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
RN   [3]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=DO;
RG   US DOE Joint Genome Institute (JGI-PGF);
RA   Copeland A., Lucas S., Lapidus A., Barry K., Detter C., Glavina T.,
RA   Hammon N., Israni S., Pitluck S., Richardson P.;
RL   Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
CC   -!- CAUTION: The sequence shown here is derived from an
CC       EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC       preliminary data.
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DR   EMBL; AAAK03000049; EAN09335.1; -; Genomic_DNA.
DR   GO; GO:0016021; C:integral to membrane; IEA.
DR   GO; GO:0009401; P:phosphoenolpyruvate-dependent sugar phospho. . .; IEA.
DR   InterPro; IPR004701; PTS_EIIA_fruc.
DR   Pfam; PF03610; EIIA-man; 1.
DR   PROSITE; PS51096; PTS_EIIA_TYPE_4; 1.
SQ   SEQUENCE   135 AA;  15069 MW;  345037CA10E9B95B CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 135;
  Best Local Similarity   100.0%;  Pred. No. 74;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          7 LGEDSSL 13
              |||||||
Db        104 LGEDSSL 110


RESULT 23
Q4W1W0_CANFA
ID   Q4W1W0_CANFA   PRELIMINARY;   PRT;   136 AA.
AC   Q4W1W0;
DT   05-JUL-2005, integrated into UniProtKB/TrEMBL.
DT   05-JUL-2005, sequence version 1.
DT   07-FEB-2006, entry version 4.
DE   Protein tyrosine phosphatase-like, member a, splice variant PTPLAd5.
GN   Name=ptpla;
OS   Canis familiaris (Dog).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
OC   Canis.
OX   NCBI_TaxID=9615;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Skeletal muscle;
RX   PubMed=15829503; DOI=10.1093/hmg/ddi151;
RA   Pele M., Tiret L., Kessler J.-L., Blot S., Panthier J.-J.;
RT   "SINE exonic insertion in the PTPLA gene leads to multiple splicing
RT   defects and segregates with the autosomal recessive centronuclear
RT   myopathy in dogs.";
RL   Hum. Mol. Genet. 14:1417-1427(2005).
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DR   EMBL; AJ876905; CAI46276.1; -; mRNA.
DR   InterPro; IPR001844; Chaprnin_Cpn60.
DR   InterPro; IPR007482; PTPLA.
DR   InterPro; IPR000387; TYR_phosphatase.
DR   PANTHER; PTHR11035; PTPLA; 1.
DR   PROSITE; PS00296; CHAPERONINS_CPN60; UNKNOWN_1.
DR   PROSITE; PS00383; TYR_PHOSPHATASE_1; UNKNOWN_1.
SQ   SEQUENCE   136 AA;  15258 MW;  37C88B967CD2F020 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 136;
  Best Local Similarity   100.0%;  Pred. No. 74;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        148 EKGTHKG 154
              |||||||
Db         61 EKGTHKG 67


RESULT 24
Q677E9_HYAOR
ID   Q677E9_HYAOR   PRELIMINARY;   PRT;   148 AA.
AC   Q677E9;
DT   11-OCT-2004, integrated into UniProtKB/TrEMBL.
DT   11-OCT-2004, sequence version 1.
DT   21-FEB-2006, entry version 13.
DE   Ubiquitin-conjugating enzyme (Fragment).
GN   Name=UBC;
OS   Hyacinthus orientalis (Common hyacinth).
OC   Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC   Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Hyacinthaceae;
OC   Hyacinthus.
OX   NCBI_TaxID=82025;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Floral meristem 5-10 days when regenerated in vitro;
RA   Fan J.H., Ma Y., Zhang X.S.;
RT   "Hyacinthus orientalis Ubiquitin-conjugating enzyme (UBC) mRNA,
RT   expressed during the regeneration of floral bud.";
RL   Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
CC   -!- SIMILARITY: Belongs to the ubiquitin-conjugating enzyme family.
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DR   EMBL; AY389584; AAT08675.1; -; mRNA.
DR   SMR; Q677E9; 18-146.
DR   GO; GO:0016874; F:ligase activity; IEA.
DR   GO; GO:0004842; F:ubiquitin-protein ligase activity; IEA.
DR   GO; GO:0006512; P:ubiquitin cycle; IEA.
DR   InterPro; IPR000608; UBQ-conjugat_E2.
DR   InterPro; IPR001680; WD40.
DR   Pfam; PF00179; UQ_con; 1.
DR   ProDom; PD000461; UBQ_conjugat; 1.
DR   SMART; SM00212; UBCc; 1.
DR   PROSITE; PS00183; UBIQUITIN_CONJUGAT_1; 1.
DR   PROSITE; PS50127; UBIQUITIN_CONJUGAT_2; 1.
DR   PROSITE; PS00678; WD_REPEATS_1; 1.
KW   Ligase; Ubl conjugation pathway.
FT   NON_TER       1      1
SQ   SEQUENCE   148 AA;  16505 MW;  A9D75A469EEE37B3 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 148;
  Best Local Similarity   100.0%;  Pred. No. 81;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db         11 SLISLFL 17


RESULT 25
Q80UB5_MOUSE
ID   Q80UB5_MOUSE   PRELIMINARY;   PRT;   151 AA.
AC   Q80UB5;
DT   01-JUN-2003, integrated into UniProtKB/TrEMBL.
DT   01-JUN-2003, sequence version 1.
DT   07-FEB-2006, entry version 14.
DE   Glucagon-like peptide 2 receptor (Fragment).
GN   Name=Glp2r;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC   Muroidea; Muridae; Murinae; Mus.
```

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OX   NCBI_TaxID=10090;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=22584407; PubMed=12679517; DOI=10.1073/pnas.0230374100;
RA   Vassilatis D.K., Hohmann J.G., Zeng H., Li F., Ranchalis J.E.,
RA   Mortrud M.T., Brown A., Rodriguez S.S., Weller J.R., Wright A.C.,
RA   Bergmann J.E., Gaitanaris G.A.;
RT   "The G protein-coupled receptor repertoires of human and mouse.";
RL   Proc. Natl. Acad. Sci. U.S.A. 100:4903-4908(2003).
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DR   EMBL; AY255567; AAO85079.1; -; mRNA.
DR   Ensembl; ENSMUSG00000049928; Mus musculus.
DR   MGI; MGI:2136733; Glp2r.
DR   GO; GO:0016021; C:integral to membrane; RCA.
DR   GO; GO:0016020; C:membrane; RCA.
DR   GO; GO:0004930; F:G-protein coupled receptor activity; RCA.
DR   GO; GO:0004967; F:glucagon receptor activity; RCA.
DR   GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; RCA.
DR   InterPro; IPR001762; Disintegrin.
DR   InterPro; IPR000832; GPCR_secretin.
DR   InterPro; IPR001879; hormone_rcpt.
DR   Pfam; PF00002; 7tm_2; 1.
DR   Pfam; PF02793; HRM; 1.
DR   PRINTS; PR00249; GPCRSECRETIN.
DR   PROSITE; PS00649; G_PROTEIN_RECEP_F2_1; 1.
DR   PROSITE; PS50227; G_PROTEIN_RECEP_F2_3; 1.
DR   PROSITE; PS50261; G_PROTEIN_RECEP_F2_4; 1.
KW   Receptor.
FT   NON_TER       1      1
FT   NON_TER     151    151
SQ   SEQUENCE   151 AA;  17747 MW;  733167846EC19F95 CRC64;

  Query Match             4.0%;  Score 7;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 82;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db        116 SLISLFL 122


Search completed: July  6, 2006, 08:15:26
Job time : 303 secs
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OM protein - protein search, using sw model

Run on: July 6, 2006, 08:06:47 ; Search time 195 Seconds
(without alignments)
415.012 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 177
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 2589679 seqs, 457216429 residues

Word size : 1

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Database : A_Geneseq_8:*
1: geneseqp1980s:*
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3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
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7: geneseqp2003bs:*
8: geneseqp2004s:*
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10: geneseqp2006s:*

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SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	177	100.0	177	4	AAB47299	Aab47299 PRO10272
2	177	100.0	177	4	AAB87603	Aab87603 Human PRO
3	177	100.0	177	4	AAU04952	Aau04952 Human Int
4	177	100.0	177	5	ABG95928	Abg95928 Human sec
5	177	100.0	177	6	ABU90953	Abu90953 Novel hum
6	177	100.0	177	6	ABO34012	Abo34012 Human sec
7	177	100.0	177	6	ABU72029	Abu72029 Novel hum
8	177	100.0	177	6	ABU71583	Abu71583 Human sec
9	177	100.0	177	6	ABU72364	Abu72364 Human PRO
10	177	100.0	177	6	ABU91037	Abu91037 Human PRO
11	177	100.0	177	6	ABO27358	Abo27358 Human sec
12	177	100.0	177	6	ABU92553	Abu92553 Human sec
13	177	100.0	177	6	ABU89699	Abu89699 Human int
14	177	100.0	177	6	ABU81223	Abu81223 Human sec
15	177	100.0	177	6	ABO53337	Abo53337 Novel hum
16	177	100.0	177	6	ABU98340	Abu98340 Novel hum
17	177	100.0	177	6	ABU89345	Abu89345 Novel hum
18	177	100.0	177	6	ABU82552	Abu82552 Novel hum
19	177	100.0	177	6	ABU72594	Abu72594 Human IL-
20	177	100.0	177	6	ABU96516	Abu96516 Human PRO
21	177	100.0	177	6	ABU72186	Abu72186 Human PRO
22	177	100.0	177	6	ADA26944	Ada26944 Human PRO
23	177	100.0	177	6	ADB17213	Adb17213 Human tra
24	177	100.0	177	6	ADA43229	Ada43229 Human int
25	177	100.0	177	6	ABO44316	Abo44316 Human sec
26	177	100.0	177	6	ADA20018	Ada20018 Novel hum
27	177	100.0	177	6	ADB17401	Adb17401 Human tra
28	177	100.0	177	6	ADA20190	Ada20190 Novel hum
29	177	100.0	177	6	ABO34244	Abo34244 Human sec
30	177	100.0	177	6	ADA00487	Ada00487 Human sec
31	177	100.0	177	7	ADA49770	Ada49770 Human int
32	177	100.0	177	7	ABU63084	Abu63084 Novel hum
33	177	100.0	177	7	ADA26963	Ada26963 Human PRO
34	177	100.0	177	7	ADB85729	Adb85729 Novel hum
35	177	100.0	177	7	ADB68408	Adb68408 Human PRO
36	177	100.0	177	7	ADB68215	Adb68215 Human PRO
37	177	100.0	177	7	ADB91032	Adb91032 Novel hum
38	177	100.0	177	7	ADB66897	Adb66897 Human PRO
39	177	100.0	177	7	ADC07112	Adc07112 Human PRO
40	177	100.0	177	7	ADC17291	Adc17291 Mammalian
41	177	100.0	177	7	ADC14989	Adc14989 Novel hum
42	177	100.0	177	7	ADC52484	Adc52484 Novel hum
43	177	100.0	177	7	ADD36160	Add36160 Novel hum
44	177	100.0	177	7	ADE86211	Ade86211 Human PRO
45	177	100.0	177	7	ABW02055	Abw02055 Human IL-
46	177	100.0	177	7	ADG01161	Adg01161 Novel hum
47	177	100.0	177	7	ADG08714	Adg08714 Novel hum
48	177	100.0	177	7	ADF95335	Adf95335 Novel hum
49	177	100.0	177	7	ADH24188	Adh24188 Novel hum
50	177	100.0	177	7	ADG87381	Adg87381 Human PRO
51	177	100.0	177	7	ADH34214	Adh34214 Novel hum
52	177	100.0	177	7	ADH30047	Adh30047 Novel hum
53	177	100.0	177	7	ADH24018	Adh24018 Novel hum
54	177	100.0	177	7	ADG85422	Adg85422 Novel hum
55	177	100.0	177	7	ADH24698	Adh24698 Novel hum
56	177	100.0	177	7	ADH37554	Adh37554 Human sec
57	177	100.0	177	7	ADH02143	Adh02143 Human PRO
58	177	100.0	177	7	ADG87369	Adg87369 Human PRO
59	177	100.0	177	7	ADH37724	Adh37724 Human sec
60	177	100.0	177	7	ADG85762	Adg85762 Novel hum
61	177	100.0	177	7	ADH24358	Adh24358 Novel hum
62	177	100.0	177	7	ADH38652	Adh38652 Novel hum
63	177	100.0	177	7	ADG88791	Adg88791 Human PRO
64	177	100.0	177	7	ADG83773	Adg83773 Human PRO
65	177	100.0	177	7	ADH29581	Adh29581 Novel hum
66	177	100.0	177	7	ADH27697	Adh27697 Novel hum
67	177	100.0	177	7	ADH37894	Adh37894 Human sec
68	177	100.0	177	7	ADH38071	Adh38071 Human sec
69	177	100.0	177	7	ADH57491	Adh57491 Novel hum
70	177	100.0	177	7	ADH53633	Adh53633 Novel hum
71	177	100.0	177	7	ADH53803	Adh53803 Novel hum
72	177	100.0	177	7	ADH52139	Adh52139 Novel hum
73	177	100.0	177	7	ADH49994	Adh49994 Novel hum
74	177	100.0	177	7	ADI25504	Adi25504 Novel hum
75	177	100.0	177	7	ADH90297	Adh90297 Novel hum
76	177	100.0	177	7	ADI25674	Adi25674 Novel hum
77	177	100.0	177	7	ADH97848	Adh97848 Novel hum
78	177	100.0	177	7	ADI03696	Adi03696 Novel hum
79	177	100.0	177	7	ADI12053	Adi12053 Human PRO
80	177	100.0	177	7	ADH90127	Adh90127 Novel hum
81	177	100.0	177	7	ADH98528	Adh98528 Novel hum
82	177	100.0	177	7	ADI11203	Adi11203 Human PRO
83	177	100.0	177	7	ADI11713	Adi11713 Human PRO
84	177	100.0	177	7	ADH98358	Adh98358 Novel hum
85	177	100.0	177	7	ADH98698	Adh98698 Novel hum
86	177	100.0	177	7	ADH98188	Adh98188 Novel hum
87	177	100.0	177	7	ADI05176	Adi05176 Novel hum
88	177	100.0	177	7	ADI03526	Adi03526 Novel hum
89	177	100.0	177	7	ADI04921	Adi04921 Novel hum
90	177	100.0	177	7	ADH78375	Adh78375 Human PRO
91	177	100.0	177	7	ADI19719	Adi19719 Novel hum
92	177	100.0	177	7	ADH90467	Adh90467 Novel hum
93	177	100.0	177	7	ADI03186	Adi03186 Novel hum
94	177	100.0	177	7	ADH78035	Adh78035 Human PRO
95	177	100.0	177	7	ADH98018	Adh98018 Novel hum
96	177	100.0	177	7	ADI01403	Adi01403 Novel hum

97	177	100.0	177	7	ADI02098	Adi02098 Novel hum
98	177	100.0	177	7	ADI03356	Adi03356 Novel hum
99	177	100.0	177	7	ADI11543	Adi11543 Human PRO
100	177	100.0	177	7	ADI02445	Adi02445 Novel hum

ALIGNMENTS

RESULT 1
AAB47299
ID AAB47299 standard; protein; 177 AA.
XX
AC AAB47299;
XX
DT 22-AUG-2001 (first entry)
XX
DE PRO10272 polypeptide.
XX
KW PRO; PRO1081; PRO1274; PRO10272; proliferation; T-lymphocyte; PRO1199;
KW PRO1556; PRO4401; PRO10268; inhibition; stimulation; infiltration;
KW mononuclear cell; eosinophil; erythema multiforme;
KW polymorphonuclear neutrophil; PMN; antibody; immune-related disorder;
KW systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;
KW juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis;
KW idiopathic inflammatory myopathy; Sjogren's syndrome; skin disease;
KW systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia; asthma;
KW autoimmune thrombocytopaenia; thyroiditis; diabetes mellitus; allergy;
KW immune-mediated renal disease; demyelination; central nervous system;
KW peripheral nervous system; idiopathic demyelinating polyneuropathy;
KW Guillain-Barre syndrome; hepatobiliary disease; eosinophilic pneumonia;
KW chronic active hepatitis; primary biliary cirrhosis; allergic rhinitis;
KW granulomatous hepatitis; sclerosing cholangitis; food hypersensitivity;
KW inflammatory bowel disease; gluten-sensitive enteropathy; urticaria;
KW Whipple's disease; idiopathic pulmonary fibrosis; contact dermatitis;
KW psoriasis; atopic dermatitis; hypersensitivity pneumonitis;
KW graft rejection; graft-versus-host disease.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1. .32
FT /label= Signal peptide
FT Protein 33. .177
FT /label= Mature PRO10272
FT Modified-site 44. .50
FT /label= N-myristoylation site
FT Modified-site 127. .135
FT /label= Tyrosine kinase phosphorylation site
FT Modified-site 136. .140
FT /label= N-glycosylation site
FT Modified-site 150. .156
FT /label= N-myristoylation site
XX
PN WO200140465-A2.
XX
PD 07-JUN-2001.
XX
PF 10-NOV-2000; 2000WO-US030873.
XX
PR 30-NOV-1999; 99WO-US028313.
PR 09-DEC-1999; 99US-0170262P.
PR 23-DEC-1999; 99US-0172059P.
PR 11-JAN-2000; 2000US-0175481P.
PR 20-JAN-2000; 2000US-0177118P.
PR 18-FEB-2000; 2000WO-US004342.
PR 03-MAR-2000; 2000US-0187202P.
PR 30-MAY-2000; 2000WO-US014941.
PR 05-JUN-2000; 2000US-0209832P.
PR 24-AUG-2000; 2000WO-US023328.
XX
PA (GETH) GENENTECH INC.
XX
PI Fong S, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
PI Hillan KJ, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2001-381384/40.
DR N-PSDB; AAC85969.
XX
PT Isolated PRO polypeptide useful for treat or diagnose an immune-related
PT disorder e.g. arthritis, asthma, allergy, diabetes or psoriasis.
XX
PS Claim 1; Fig 18; 124pp; English.
XX
CC The sequences given in AAB47291-99 show PRO polypeptides. PRO1081,
CC PRO1274 and PRO10272 stimulate the proliferation of T-lymphocytes and
CC PRO1199, PRO1556, PRO4401 and PRO10268 inhibit the proliferation of T-
CC lymphocytes. PRO1754 and PRO9912 act to enhance the infiltration of
CC mononuclear cells, eosinophils or polymorphonuclear neutrophils (PMN)
CC into the tissue of a mammal. The PRO cDNA's and antibodies which bind to
CC them, are used to treat an immune-related disorder in a mammal. Such
CC disorders include systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, a spondyloarthropathy,
CC systemic sclerosis, an idiopathic inflammatory myopathy, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, a demyelinating disease of the central or
CC peripheral nervous system, idiopathic demyelinating polyneuropathy,
CC Guillain-Barre syndrome, a chronic inflammatory demyelinating
CC polyneuropathy, a hepatobiliary disease, infectious or autoimmune chronic
CC active hepatitis, primary biliary cirrhosis, granulomatous hepatitis,
CC sclerosing cholangitis, inflammatory bowel disease, gluten-sensitive
CC enteropathy, Whipple's disease, an autoimmune or immune-mediated skin
CC disease, a bullous skin disease, erythema multiforme, contact dermatitis,
CC psoriasis, an allergic disease, asthma, allergic rhinitis, atopic
CC dermatitis, food hypersensitivity, urticaria, an immunologic disease of
CC the lung, eosinophilic pneumonia, idiopathic pulmonary fibrosis,
CC hypersensitivity pneumonitis, a transplantation associated disease, graft
CC rejection or graft-versus-host disease
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 2
AAB87603
ID AAB87603 standard; protein; 177 AA.
XX
AC AAB87603;
XX
DT 15-MAY-2001 (first entry)
XX
DE Human PRO10272.
XX
KW Human; PRO protein; mapping.
XX
OS Homo sapiens.
XX
PN WO200116318-A2.
XX
PD 08-MAR-2001.

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XX
PF   24-AUG-2000; 2000WO-US023328.
XX
PR   01-SEP-1999;   99WO-US020111.
PR   15-SEP-1999;   99WO-US021090.
PR   07-DEC-1999;   99US-0169495P.
PR   09-DEC-1999;   99US-0170262P.
PR   11-JAN-2000; 2000US-0175481P.
PR   18-FEB-2000; 2000WO-US004341.
PR   18-FEB-2000; 2000WO-US004342.
PR   22-FEB-2000; 2000WO-US004414.
PR   01-MAR-2000; 2000WO-US005601.
PR   03-MAR-2000; 2000US-0187202P.
PR   21-MAR-2000; 2000US-0191007P.
PR   30-MAR-2000; 2000WO-US008439.
PR   25-APR-2000; 2000US-0199397P.
PR   22-MAY-2000; 2000WO-US014042.
PR   05-JUN-2000; 2000US-0209832P.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi CJ,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2001-183260/18.
DR   N-PSDB; AAF92135.
XX
PT   Eighty four nucleic acids encoding PRO polypeptides, useful in molecular
PT   biology, including use as hybridization probes, and in chromosome and
PT   gene mapping.
XX
PS   Claim 12; Fig 156; 278pp; English.
XX
CC   The present sequence is a human PRO polypeptide (secreted and
CC   transmembrane). The PRO protein, and PRO agonists, PRO antagonists or
CC   anti-PRO antibodies are useful for preparation of a medicament useful in
CC   the treatment of a condition which is responsive to the PRO protein,
CC   agonists, antagonists or anti-PRO antibodies. The PRO protein may also be
CC   employed as molecular weight markers for protein electrophoresis. The PRO
CC   coding sequence has applications in molecular biology, including use as
CC   hybridisation probes, and in chromosome and gene mapping
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 3
AAU04952
ID   AAU04952 standard; protein; 177 AA.
XX
AC   AAU04952;
XX
DT   24-OCT-2001  (first entry)
XX
DE   Human Interleukin 17E ligand, IL-17E.
XX
KW   Human; Interleukin-17E ligand; IL-17E; agonist; antagonist; PRO10272;
KW   DNA 147531-2821; systemic lupus erythematosus; rheumatoid arthritis;
KW   osteoarthritis; diabetes mellitus; allergic disease; asthma;
KW   demyelinating disease; degenerative cartilaginous disorder;
KW   transplantation associated disease.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Peptide         1. .32
FT                   /label= Signal_peptide
FT   Protein         33. .177
FT                   /label= Mature_IL_17E
FT   Region          44. .50
FT                   /note= "N-myristoylation site"
FT   Region          127. .135
FT                   /note= "Tyrosine kinase phosphorylation site"
FT   Modified-site   136. .140
FT                   /note= "Asn is glycosylated"
FT   Region          150. .156
FT                   /note= "N-myristoylation site"
XX
PN   WO200146420-A2.
XX
PD   28-JUN-2001.
XX
PF   20-DEC-2000; 2000WO-US034956.
XX
PR   23-DEC-1999;   99US-0172096P.
PR   30-DEC-1999;   99WO-US031274.
PR   11-JAN-2000; 2000US-0175481P.
PR   18-FEB-2000; 2000WO-US004341.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000US-0191007P.
PR   21-MAR-2000; 2000WO-US007532.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-JUN-2000; 2000US-0213807P.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   24-OCT-2000; 2000US-0242837P.
PR   10-NOV-2000; 2000WO-US030873.
PR   28-NOV-2000; 2000US-0253646P.
PR   01-DEC-2000; 2000WO-US032678.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Chen J,  Filvaroff E,  Fong S,  Goddard A,  Godowski PJ,  Grimaldi CJ;
PI   Gurney AL,  Li H,  Hillan KJ,  Tumas D,  Van Lookeren M,  Vandlen RL;
PI   Watanabe CK,  Williams PM,  Wood WI,  Yansura DG;
XX
DR   WPI; 2001-451708/48.
DR   N-PSDB; AAS09511.
XX
PT   Novel PRO polypeptides homologous to interleukin-17, useful for the
PT   diagnosis and treatment of immune related disease e.g. rheumatoid
PT   arthritis and diabetes.
XX
PS   Claim 10; Fig 6; 188pp; English.
XX
CC   The sequence is PRO10272 which is the human Interleukin 17E ligand, IL-
CC   17E, encoded by DNA 147531-2821. A composition containing ant/agonists to
CC   the PRO polypeptides or individual components are useful for treating a
CC   mammal with an immune related disease, e.g. systemic lupus erythematosus,
CC   rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a
CC   spondyloarthropathy, systemic sclerosis, an idiopathic inflammatory
CC   myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis,
CC   autoimmune haemolytic anaemia, autoimmune thrombocytopaenia, thyroiditis,
CC   diabetes mellitus, immune-mediated renal disease, a demyelinating
CC   disease, an autoimmune or immune-mediated skin disease, contact
CC   dermatitis, an allergic disease e.g. food hypersensitivity, asthma, a
CC   transplantation associated disease, or a chronic inflammatory
CC   demyelinating polyneuropathy. Treating a degenerative cartilaginous
CC   disorder comprises administering a PRO1031 or PRO1122 polypeptide
CC   agonist, or antagonist to the mammal. Numerous examples of the diseases
CC   and disorders are given in the specification
```

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XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 4
ABG95928
ID   ABG95928 standard; protein; 177 AA.
XX
AC   ABG95928;
XX
DT   10-DEC-2002  (first entry)
XX
DE   Human secreted/transmembrane protein PRO10272.
XX
KW   Human; secreted protein; transmembrane protein; antirheumatic;
KW   antiarthritic; osteopathic; sports-related joint problem;
KW   articular cartilage defect; osteoarthritis; rheumatoid arthritis.
XX
OS   Homo sapiens.
XX
PN   US2002119130-A1.
XX
PD   29-AUG-2002.
XX
PF   06-DEC-2001; 2001US-00006867.
XX
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0064215P.
PR   22-APR-1998;   98US-0082797P.
PR   29-APR-1998;   98US-0083495P.
PR   15-MAY-1998;   98US-0085579P.
PR   02-JUN-1998;   98US-0087759P.
PR   04-JUN-1998;   98US-0088021P.
PR   04-JUN-1998;   98US-0088029P.
PR   04-JUN-1998;   98US-0088030P.
PR   10-JUN-1998;   98US-0088734P.
PR   10-JUN-1998;   98US-0088740P.
PR   10-JUN-1998;   98US-0088811P.
PR   10-JUN-1998;   98US-0088824P.
PR   10-JUN-1998;   98US-0088825P.
PR   11-JUN-1998;   98US-0088863P.
PR   12-JUN-1998;   98US-0089105P.
PR   16-JUN-1998;   98US-0089514P.
PR   17-JUN-1998;   98US-0089653P.
PR   19-JUN-1998;   98US-0089952P.
PR   22-JUN-1998;   98US-0090246P.
PR   24-JUN-1998;   98US-0090444P.
PR   25-JUN-1998;   98US-0090688P.
PR   25-JUN-1998;   98US-0090696P.
PR   26-JUN-1998;   98US-0090862P.
PR   02-JUL-1998;   98US-0091628P.
PR   10-AUG-1998;   98US-0096012P.
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PR   18-AUG-1998;   98US-0096949P.
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PR   26-AUG-1998;   98US-0097971P.
PR   26-AUG-1998;   98US-0097979P.
PR   01-SEP-1998;   98US-0098749P.
PR   10-SEP-1998;   98US-0099741P.
PR   10-SEP-1998;   98US-0099763P.
PR   10-SEP-1998;   98US-0099792P.
PR   10-SEP-1998;   98US-0099812P.
PR   10-SEP-1998;   98US-0099815P.
PR   16-SEP-1998;   98US-0100627P.
PR   16-SEP-1998;   98US-0100662P.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98US-0100683P.
PR   17-SEP-1998;   98US-0100684P.
PR   17-SEP-1998;   98US-0100930P.
PR   22-SEP-1998;   98US-0101279P.
PR   23-SEP-1998;   98US-0101475P.
PR   24-SEP-1998;   98US-0101738P.
PR   24-SEP-1998;   98US-0101743P.
PR   24-SEP-1998;   98US-0101916P.
PR   30-SEP-1998;   98US-0102570P.
PR   06-OCT-1998;   98US-0103449P.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99WO-US010733.
PR   02-JUN-1999;   99WO-US012252.
PR   01-SEP-1999;   99WO-US020111.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021194.
PR   22-DEC-1999;   99WO-US030720.
PR   18-FEB-2000; 2000WO-US004341.
PR   18-FEB-2000; 2000WO-US004342.
PR   22-FEB-2000; 2000WO-US004414.
PR   01-MAR-2000; 2000WO-US005601.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   23-AUG-2000; 2000WO-US023522.
PR   24-AUG-2000; 2000WO-US023328.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032378.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   01-MAR-2001; 2001WO-US006666.
PR   30-MAY-2001; 2001WO-US017443.
PR   01-JUN-2001; 2001WO-US017800.
PR   20-JUN-2001; 2001WO-US019692.
PR   29-JUN-2001; 2001WO-US021066.
PR   09-JUL-2001; 2001WO-US021735.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2002-731348/79.
DR   N-PSDB; ABS74455.
XX
PT   New isolated secreted and transmembrane PRO polypeptide useful for
PT   modulating biological activity of a cell, or for treating sports-related
PT   joint problems, osteoarthritis or rheumatoid arthritis.
XX
PS   Claim 20; Fig 156; 399pp; English.
XX
CC   The invention relates to an isolated secreted and transmembrane PRO
CC   polypeptide having 80 % sequence identity to a sequence appearing as
CC   ABG95851-ABG95934 or their associated signal peptide, or a sequence of an
CC   extracellular domain of the proteins with their associated signal peptide
CC   or lacking its associated signal peptide. Also included are the nucleic
CC   acids encoding the proteins, vectors, host cells, fusion proteins and
CC   antibodies which specifically bind to the proteins. The proteins are
CC   useful for detecting a polypeptide designated as A, B, C or D in a sample
CC   suspected of containing an A, B, C or D polypeptide, by contacting the
CC   sample with a polypeptide designated as E, F, G, H or I (or vice versa)
CC   and determining the formation of a A/E, B/F, B/G, C/H or D/I polypeptide
CC   conjugate in the sample, where the formation of the conjugate is
```

CC indicative of the presence of an A, B, C or D polypeptide in the sample, where A is a PRO10272 polypeptide, B is a PRO20110 polypeptide, C is a PRO10096 polypeptide, D is a PRO19760 polypeptide, E is a PRO5801 polypeptide, F is a PRO1 polypeptide, G is a PRO20040 polypeptide, H is a PRO20233 polypeptide and I is a PRO1890 polypeptide. The sample comprises a cell suspected of expressing the A, B, C or D polypeptide. The E, F, G, H or I polypeptide is labeled with a detectable label or is attached to a solid support. The proteins are useful for linking a bioactive molecule to a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H or I. The bioactive molecule is a toxin, a radiolabel or an antibody. The bioactive molecule causes death of the cell. A, B, C, D, E, F, G, H, or I, or antibodies against them are useful for modulating a biological activity of a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H, or I. The cell is killed. The proteins are useful for identifying agonists or antagonists, for the preparation of a medicament useful in the treatment of a condition which is responsive to the proteins, as molecular weight markers for protein electrophoresis purposes, and as therapeutic agents for treating sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis. Nucleic acids encoding the proteins are useful as hybridisation probes, in chromosome and gene mapping, in the generation of anti-sense RNA and DNA, for the preparation of the proteins, to generate transgenic or knockout animals which are useful in the development and screening of therapeutic useful reagents, for chromosome identification, and in gene therapy. The antibody is useful as a therapeutic agent, in a diagnostic assay and for affinity purification of the protein from recombinant cell culture natural sources. The present sequence represents a novel secreted or transmembrane protein of the invention

SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 5; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 5
ABU90953
ID ABU90953 standard; protein; 177 AA.
XX
AC ABU90953;
XX
DT 11-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO10272.
XX
KW Human; secreted and transmembrane protein; PRO; antibody therapy;
KW pharmaceutical; diagnostic; biosensor; bioreactor.
XX
OS Homo sapiens.
XX
PN US2003018173-A1.
XX
PD 23-JAN-2003.
XX
PF 01-MAY-2002; 2002US-00063515.
XX
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-401702/38.
DR N-PSDB; ACA91241.
XX
PT New antibody useful for identifying PRO polypeptides, for affinity
PT purification of PRO polypeptides, and for preparing a medicament for
PT diagnosing or treating conditions responsive to the antibody or PRO
PT polypeptide.
XX
PS Disclosure; Fig 156; 345pp; English.
XX
CC The invention describes an antibody that specifically binds to a PRO
CC polypeptide having a fully defined amino acid sequence given in the
CC specification. The antibody is useful in identifying PRO polypeptides
CC useful for various industrial applications, including pharmaceuticals,
CC diagnostics, biosensors and bioreactors. The antibody is also used for
CC affinity purification of PRO polypeptides from recombinant cell culture
CC or natural sources. The antibody, PRO polypeptide, or its agonists or
CC antagonists, may be used for preparing a medicament for diagnosing or
CC treating a condition responsive to the antibody, PRO polypeptide, or its
CC agonists or antagonists. This is the amino acid sequence of a novel human
CC secreted and transmembrane PRO polypeptide
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 6
ABO34012
ID ABO34012 standard; protein; 177 AA.
XX
AC ABO34012;
XX
DT 18-SEP-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO10272.
XX
KW Human; secreted/transmembrane protein; PRO; tumour; cancer; cytostatic.
XX
OS Homo sapiens.
XX
PN US2003009013-A1.
XX
PD 09-JAN-2003.
XX
PF 01-MAY-2002; 2002US-00063519.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.

```
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-447384/42.
DR   N-PSDB; ACD81618.
XX
PT   New isolated antibody specifically binding a PRO polypeptide, useful for
PT   the preparation of a medicament for treating disorders with the aberrant
PT   expression or activity of the PRO polypeptide, such as tumor conditions
PT   and cancer.
XX
PS   Disclosure; Fig 156; 223pp; English.
XX
CC   The invention relates to an antibody that binds to a secreted or
CC   transmembrane protein designated PRO1446 appearing as ABO33941. The
CC   protein is one of 84 PRO polypeptides which (along with their encoding
CC   nucleic acids) are disclosed in the specification. The methods and
CC   compositions of the present invention are useful for the preparation of a
CC   medicament for the treatment of disorders associated with the aberrant
CC   expression or activity of the PRO polypeptide, such as tumour conditions
CC   and cancer. They can also be used to generate transgenic or knockout
CC   animals useful in the development and screening of therapeutically useful
CC   reagents. The PRO polypeptides and encoding nucleic acids can be used as
CC   molecular weight markers for protein electrophoresis, chromosome
CC   identification and tissue typing. The antibodies may be used in various
CC   diagnostic, competitive binding and/or immunoprecipitation assays. The
CC   present sequence represents a PRO polypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 7
ABU72029
ID   ABU72029 standard; protein; 177 AA.
XX
AC   ABU72029;
XX
DT   11-JUN-2003  (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO10272.
XX
KW   Human; secreted and transmembrane polypeptide; chromosome mapping;
KW   gene mapping; transgenic animal; knockout animal;
KW   therapeutic agent screening; chromosome identification; tissue typing;
KW   gene therapy.
XX
OS   Homo sapiens.
XX
PN   US2003018183-A1.
XX
PD   23-JAN-2003.
XX
PF   01-MAY-2002; 2002US-00063512.
XX
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-330984/31.
DR   N-PSDB; ACA60440.
XX
PT   New secreted and transmembrane PRO polypeptides and nucleic acid
PT   molecules encoding the polypeptides, useful in gene therapy or preparing
PT   a medicament for treating a condition that is responsive to the PRO
PT   polypeptide or antibody.
XX
PS   Disclosure; Fig 156; 409pp; English.
XX
CC   The invention describes novel isolated PRO polypeptides. The PRO
CC   polypeptides or anti-PRO antibodies are useful in preparing a medicament
CC   for treating a condition that is responsive to the PRO polypeptide or
CC   antibody. The PRO nucleotide sequences may be used as hybridisation
CC   probes in chromosome and gene mapping, or in generating antisense RNA and
CC   DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in
CC   assays to identify other proteins or molecules involved in binding
CC   reaction, to generate transgenic animals or knockout animals, which in
CC   turn are useful in the development and screening of therapeutically
CC   useful reagents, for chromosome identification, and tissue typing. The
CC   PRO polypeptides and nucleic acid molecules are also useful in gene
CC   therapy, and as molecular weight markers for protein electrophoresis
CC   purposes. The anti-PRO antibodies may be used in diagnostic assays for
CC   PRO, or for the affinity purification of PRO from recombinant cell
CC   culture or natural sources. This is the amino acid sequence of a novel
CC   human secreted and transmembrane PRO poypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
```

```
Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 8
ABU71583
ID ABU71583 standard; protein; 177 AA.
XX
AC ABU71583;
XX
DT 10-JUN-2003 (first entry)
XX
DE Human secreted polypeptide PRO10272.
XX
KW Human; gene therapy; tumour; cancer.
XX
OS Homo sapiens.
XX
PN US2003013855-A1.
XX
PD 16-JAN-2003.
XX
PF 03-MAY-2002; 2002US-00063616.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 15-SEP-1999; 99US-00397342.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-330485/31.
DR N-PSDB; ACA58887.
XX
PT New isolated antibody specifically binding a PRO polypeptide, useful for
PT the preparation of a medicament for treating disorders with the aberrant
PT expression or activity of the PRO polypeptide, such as tumor conditions
PT and cancer.
XX
PS Example 19; Page 224; 406pp; English.
XX
CC The invention relates to an antibody that binds to a polypeptide with a
CC fully defined sequence given in the specification. The methods and
CC compositions (containing antibodies that specifically bind a PRO
CC polypeptide) of the present invention are useful for the preparation of a
CC medicament for the treatment of disorders associated with the aberrant
CC expression or activity of the PRO polypeptide, such as tumour conditions
CC and cancer. They can also be used to generate transgenic or knockout
CC animals useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides and encoding nucleic acids can be used as
CC molecular weight markers for protein electrophoresis, chromosome
CC identification and tissue typing. The PRO polypeptides are useful to
CC induce angiogenesis e.g wound healing; in the treatment of sports-related
CC joint problems, articular cartilage defects, osteoarthritis or rheumatoid
CC arthritis; diabetes; hyperinsulinaemia and hypoinsulinaemia. The
CC antibodies may be used in various diagnostic, competitive binding and/or
CC immunoprecipitation assays. The present sequence represents the amino
CC acid sequence of a PRO polypeptide of the invention
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 9
ABU72364
ID ABU72364 standard; protein; 177 AA.
XX
AC ABU72364;
XX
DT 16-JUN-2003 (first entry)
XX
DE Human PRO polypeptide #78.
XX
KW Human; PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression.
XX
OS Homo sapiens.
XX
PN US2002182638-A1.
XX
PD 05-DEC-2002.
XX
PF 02-MAY-2002; 2002US-00063547.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.

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PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-328612/04.
DR   N-PSDB; ACA64063.
XX
PT   An isolated secreted transmembrane polypeptide designated PRO, useful as
PT   a therapeutic agent.
XX
PS   Disclosure; Fig 156; 236pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides, and the polynucleotide sequences encoding them. The PRO
CC   polypeptides are secreted and transmembrane proteins. The PRO
CC   polypeptides and polynucleotides are useful for preparing a medicament
CC   useful in the treatment of a condition responsive to anti-PRO antibody.
CC   Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting
CC   its expression in specific cells, tissues or serum, and for affinity
CC   purification of PRO from recombinant cell culture or natural sources.
CC   ABU72287-ABU72370 represent the human PRO polypeptides of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

```
RESULT 10
ABU91037
ID   ABU91037 standard; protein; 177 AA.
XX
AC   ABU91037;
XX
DT   14-JUL-2003  (first entry)
XX
DE   Human PRO polypeptide #78.
XX
KW   Human; PRO polypeptide; secreted protein; transmembrane protein; rectal;
KW   lung; stomach; oesophageal; skin; tumour; cancer; cytostatic.
XX
OS   Homo sapiens.
XX
PN   US2003018168-A1.
XX
PD   23-JAN-2003.
XX
PF   02-MAY-2002; 2002US-00063569.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-401699/38.
DR   N-PSDB; ACA91327.
XX
PT   New isolated, secreted and transmembrane PRO polypeptide, useful for the
PT   diagnosis, prevention and treatment of rectal, lung, stomach, esophageal
PT   or skin cancers.
XX
PS   Disclosure; Fig 156; 235pp; English.
```

```
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides, and the polynucleotide sequences encoding them. The PRO
CC   polypeptides are secreted and transmembrane proteins. The PRO polypeptide
CC   and polynucleotide sequences are useful for the diagnosis, prevention and
CC   treatment of rectal, lung, stomach, oesophageal or skin tumours, and/or
CC   cancers. The PRO polypeptides are also useful as molecular weight
CC   markers. The PRO polynucleotide sequences are useful for chromosome
CC   identification, hybridisation probes, and for screening libraries of
CC   human cDNA, genomic DNA or mRNA. They may also be used in gene therapy,
CC   particularly for replacing a defective gene. ABU90960-ABU91043 represent
CC   the human PRO polypeptides of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 11
ABO27358
ID   ABO27358 standard; protein; 177 AA.
XX
AC   ABO27358;
XX
DT   11-SEP-2003  (first entry)
XX
DE   Human secreted/transmembrane polypeptide PRO10272.
XX
KW   Human; tumour; cancer; gene therapy; tissue typing.
XX
OS   Homo sapiens.
XX
PN   US2003009012-A1.
XX
PD   09-JAN-2003.
XX
PF   01-MAY-2002; 2002US-00063517.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-447383/42.
DR   N-PSDB; ACD45226.
XX
PT   New isolated antibody specifically binding a PRO polypeptide, useful for
PT   the preparation of a medicament for treating disorders with the aberrant
PT   expression or activity of the PRO polypeptide, such as tumor conditions
PT   and cancer.
XX
PS   Dislcosure; Fig 156; 223pp; English.
XX
CC   The invention relates to an antibody that binds to a secreted and
CC   transmembrane PRO polypeptide. The methods and compositions of the
CC   present invention are useful for the preparation of a medicament for the
CC   treatment of disorders associated with the aberrant expression or
CC   activity of the PRO polypeptide, such as tumour conditions and cancer.
CC   They can also be used to generate transgenic or knockout animals useful
CC   in the development and screening of therapeutically useful reagents. The
CC   PRO polypeptides and encoding nucleic acids can be used as molecular
CC   weight markers for protein electrophoresis, chromosome identification and
CC   tissue typing. The antibodies may be used in various diagnostic,
CC   competitive binding and/or immunoprecipitation assays. The present
CC   sequence represents the amino acid sequence of a secreted and
CC   transmembrane PRO polypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 12
ABU92553
ID   ABU92553 standard; protein; 177 AA.
XX
AC   ABU92553;
XX
DT   17-JUL-2003  (first entry)
XX
```

DE Human secreted/transmembrane protein PRO10272.
XX
KW Human; PRO; secreted protein; transmembrane protein; cytostatic;
KW vulnerary; osteopathic; antiarthritic; antirheumatic; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW liver tumour; tumour necrosis factor; pericyte cell proliferation;
KW TNF-alpha; proteoglycans release; cartilage; cancer; wound healing;
KW cartilage defect; osteoarthritis; rheumatoid arthritis.
XX
OS Homo sapiens.
XX
PN US2003045684-A1.
XX
PD 06-MAR-2003.
XX
PF 02-MAY-2002; 2002US-00063553.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 15-SEP-1999; 99US-00397342.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-392892/37.
DR N-PSDB; ACA93774.
XX
PT New PRO994 polypeptide, useful for detecting tumors, or for stimulating
PT Tumor Necrosis Factor alpha, or pericyte proliferation, especially for
PT treating cancer, cartilage defects, osteoarthritis and rheumatoid
PT arthritis in a mammal.
XX
PS Disclosure; Fig 156; 235pp; English.
XX
CC The invention relates to a new isolated PRO994 polypeptide comprises an
CC amino acid sequence appearing as ABU92499, PRO994 lacking its associated
CC signal peptide, the extracellular domain of PRO994, the extracellular
CC domain of PRO994 (lacking it associated signal peptide) or the protein
CC encoded by the full-length coding sequence of the cDNA ATCC 203018. Also
CC included is a chimaeric molecule comprising the PRO994 polypeptide fused
CC to a heterologous amino acid sequence. The PRO polypeptide is useful in
CC pharmaceuticals, diagnostics, biosensors or bioreactors. It is
CC particularly useful for detecting tumours (e.g. lung tumour, colon
CC tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour)
CC in a mammal, for stimulating the release of tumour necrosis factor (TNF)-
CC alpha from human blood, for stimulating the proliferation of pericyte
CC cells, or stimulating the release of proteoglycans from cartilage. The
CC polypeptide may be employed for a variety of therapeutic purposes, e.g.
CC for treating cancer, wound healing, cartilage defects, osteoarthritis,
CC rheumatoid arthritis. Also disclosed are the cDNA encoding PRO994, 83
CC other PRO polypeptides and their encoding cDNAs. The present sequence
CC represents a PRO polypeptide of the invention
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
Db 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
Db 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy 121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
Db 121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177

RESULT 13
ABU89699
ID ABU89699 standard; protein; 177 AA.
XX
AC ABU89699;
XX
DT 10-JUL-2003 (first entry)
XX
DE Human interleukin 17 homologue h-IL17-E/PRO10272.
XX
KW Human; interleukin 17; IL-17; IL17 receptor; angiogenesis;
KW T-lymphocyte proliferation; inflammatory cell infiltration;
KW immune related disorder; systemic lupus erythematosus; osteoarthritis;
KW rheumatoid arthritis; spondyloarthropathy; systemic sclerosis;
KW Sjogren's syndrome; sarcoidosis; autoimmune haemolytic anaemia;
KW thyroiditis; diabetes mellitus; immune-mediated renal disease;
KW demyelinating disease; Guillain-Barre syndrome; hepatobiliary disease;
KW hepatitis; inflammatory bowel disease; Whipple's disease; psoriasis;
KW immune-mediated skin disease; erythema multiforme; contact dermatitis;
KW allergic disease; asthma; atopic dermatitis; food hypersensitivity;
KW urticaria; immunologic disease of the lung; eosinophilic pneumonia;
KW idiopathic pulmonary fibrosis; transplantation associated disease;
KW graft-versus-host disease.
XX
OS Homo sapiens.
XX
PN US2003003546-A1.
XX
PD 02-JAN-2003.
XX
PF 22-MAR-2001; 2001US-00816744.
XX
PR 15-MAY-1998; 98US-0085579P.
PR 23-DEC-1998; 98US-0113621P.
PR 08-MAR-1999; 99WO-US005028.
PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
PR 14-MAY-1999; 99US-00311832.

PR 14-MAY-1999; 99US-0134287P.
PR 14-MAY-1999; 99WO-US010733.
PR 09-JUN-1999; 99US-0138387P.
PR 23-DEC-1999; 99US-0172096P.
PR 30-DEC-1999; 99WO-US031274.
PR 11-JAN-2000; 2000US-0175481P.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000US-0191007P.
PR 21-MAR-2000; 2000WO-US007532.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-JUN-2000; 2000US-0213807P.
PR 24-AUG-2000; 2000WO-US023328.
PR 24-OCT-2000; 2000US-0242837P.
PR 26-OCT-2000; 2000US-0244072P.
PR 10-NOV-2000; 2000WO-US030873.
PR 28-NOV-2000; 2000US-0253646P.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
XX
PA (GETH) GENENTECH INC.
XX
PI Chen J, Filvaroff E, Fong S, Goddard A, Godowski P, Grimaldi C;
PI Gurney A, Li H, Hillan K, Tumas D, Vanlookeren M, Vandlen R;
PI Watanabe C, Williams PM, Wood WI, Yansura D;
XX
DR WPI; 2003-428843/40.
DR N-PSDB; ACA89852.
XX
PT New PRO polypeptides and polynucleotides homologous to interleukin-17,
PT useful for treating e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, juvenile chronic arthritis, or systemic
PT sclerosis.
XX
PS Claim 10; Fig 6; 129pp; English.
XX
CC The invention relates to a nucleic acid having similarity to interleukin-
CC 17 (IL-17) or IL-17 receptor comprises at least 80% nucleic acid sequence
CC identity to a nucleotide sequence which: (a) encodes a polypeptide having
CC a sequence of appearing as ABU89697-ABU89700 and ABU89702-ABU89705 (P1-
CC P8), lacking or having its associated signal peptide; (b) encodes an
CC extracellular domain of P1-P8 lacking its associated signal peptide; (c)
CC consists of a sequence of appearing as ACA89850-ACA89853 and ACA89855-
CC ACA89858687; or (d) consists of the full-length coding sequence of
CC selected from S1-S8, and of the cDNA deposited under ATCC accession
CC number 209866, 203552, PTA-1185, PTA-2108, PTA-202, PTA-1535, PTA-1082 or
CC PTA-2591. Also included are expression vectors, host cells, encoded
CC proteins, chimaeric proteins, antibodies, ant/agonists, compounds
CC inhibiting the expression of S1-S8 or activity (or mimicking the activity
CC of) of P1-P8, stimulating/inhibiting the proliferation of T-lymphocytes
CC using the polypeptides or ant/agonists, enhancing the infiltration of
CC inflammatory cells into a tissue of a mammal by administering a PRO1031
CC polypeptide, its an agonist or antagonist, and inhibiting angiogenesis
CC induced by a PRO1031 polypeptide or its agonist in a mammal by
CC administering a PRO1031 polypeptide, its ant/agonist or an anti-PRO1031
CC antibody. The proteins, antibodies, ant/agonists and compounds are useful
CC for treating an immune related disorder such as systemic lupus
CC erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic
CC arthritis, a spondyloarthropathy, systemic sclerosis, an idiopathic
CC inflammatory myopathy, Sjogren's syndrome, systemic vasculitis,
CC sarcoidosis, autoimmune haemolytic anaemia, autoimmune thrombocytopaenia,
CC thyroiditis, diabetes mellitus, immune-mediated renal disease, a
CC demyelinating disease of the central or peripheral nervous system,
CC idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome, a
CC chronic inflammatory demyelinating polyneuropathy, a hepatobiliary
CC disease, infectious or autoimmune chronic active hepatitis, primary
CC biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,
CC inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's
CC disease, an autoimmune or immune-mediated skin disease, a bullous skin
CC disease, erythema multiforme, contact dermatitis, psoriasis, an allergic
CC disease, asthma, allergic rhinitis, atopic dermatitis, food
CC hypersensitivity, urticaria, an immunologic disease of the lung,
CC eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity
CC pneumonitis, a transplantation associated disease, graft rejection or
CC graft-versus-host disease. The present sequence represents an IL17 or
CC IL17 receptor homologue of the invention
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
Db 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
Db 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy 121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
Db 121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177

RESULT 14
ABU81223
ID ABU81223 standard; protein; 177 AA.
XX
AC ABU81223;
XX
DT 23-JUN-2003 (first entry)
XX
DE Human secreted polypeptide PRO10272.
XX
KW Human; affinity purification.
XX
OS Homo sapiens.
XX
PN US2003027212-A1.
XX
PD 06-FEB-2003.
XX
PF 02-MAY-2002; 2002US-00063544.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 15-SEP-1999; 99US-00397342.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.

```
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-341840/32.
DR   N-PSDB; ACA67348.
XX
PT   New monoclonal antibody that binds to a secreted and transmembrane
PT   polypeptide, useful for detecting and purifying the polypeptide and also
PT   for treating conditions responsive to the antibody.
XX
PS   Example 19; Fig 156; 235pp; English.
XX
CC   The invention relates to an antibody that binds to a secreted and
CC   transmembrane polypeptide, PRO1136. The antibody is useful for preparing
CC   a medicament useful in the treatment of a condition responsive to anti-
CC   PRO antibody. The antibody is also useful in diagnostic assays for PRO,
CC   by detecting its expression in specific cells, tissues or serum, and for
CC   affinity purification of PRO from recombinant cell culture or natural
CC   sources. The present sequence represents a cDNA encoding a PRO
CC   polypeptide of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 15
ABO53337
ID   ABO53337 standard; protein; 177 AA.
XX
AC   ABO53337;
XX
DT   14-OCT-2003  (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO10272.
XX
KW   Human; secreted and transmembrane protein; PRO.
XX
OS   Homo sapiens.
XX
PN   US2003027986-A1.
XX
PD   06-FEB-2003.
XX
PF   02-MAY-2002; 2002US-00063549.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-456358/43.
DR   N-PSDB; ACH66321.
XX
PT   PRO polypeptide, useful for preparing a medicament for treating a
PT   condition associated with PRO polypeptide.
XX
PS   Disclosure; Fig 156; 222pp; English.
XX
CC   The invention describes an isolated polypeptide having at least 80, 85,
CC   90, 95 or 99% identity with: (a) a sequence having 46-335 amino acids, or
CC   its extracellular domain; (b) a sequence having 46-335 amino acids,
CC   lacking its associated signal peptide; or (c) an amino acid sequence
CC   encoded by the full-length coding sequence of the cDNA (ATCC accession
CC   number 209956). The PRO (secreted and transmembrane) polypeptide is
CC   useful for preparing a medicament for treating a condition associated
CC   with PRO polypeptide. This is the amino acid sequence of a novel human
CC   secreted and transmembrane PRO polypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
```

```
Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 16
ABU98340
ID ABU98340 standard; protein; 177 AA.
XX
AC ABU98340;
XX
DT 30-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO10272.
XX
KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW cancer; chromosome mapping; gene mapping; diagnostic; biosensor;
KW bioreactor.
XX
OS Homo sapiens.
XX
PN US2002183493-A1.
XX
PD 05-DEC-2002.
XX
PF 02-MAY-2002; 2002US-00063530.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 15-SEP-1999; 99US-00397342.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-328636/31.
DR N-PSDB; ACD02375.
XX
PT New antibody that specifically binds to a PRO polypeptide, useful in
PT preparing a medicament for treating a condition, e.g. cancer, responsive
PT to the antibody, and in diagnostic and purification assays for the PRO
PT polypeptide.
XX
PS Disclosure; Fig 156; 236pp; English.
XX
CC The invention describes an antibody that binds to a polypeptide having a
CC sequence of 277 amino acids fully defined in the specification. The
CC antibody, PRO polypeptide, or the agonist or antagonist of the
CC polypeptide, is useful in preparing a medicament for treating a condition
CC responsive to the PRO polypeptide, agonist or antagonist, or the
CC antibody, such as cancer. The antibody may also be used in diagnostic
CC assays for PRO polypeptide in specific cells, tissue or serum, and in
CC affinity purification of the polypeptide. The nucleic acid molecule is
CC useful in molecular biology, as hybridisation probes, in chromosome and
CC gene mapping, in generating antisense RNA and DNA, in preparing PRO
CC polypeptides by recombinant techniques, and in gene therapy. The
CC oligonucleotide probes are useful for isolating genomic and cDNA
CC nucleotide sequences or as antisense probes. The secreted proteins are
CC useful in industrial applications, including as pharmaceuticals,
CC diagnostics, biosensors and bioreactors. The PRO polypeptides may also be
CC employed as molecular weight markers for protein electrophoresis
CC purposes. This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 17
ABU89345
ID ABU89345 standard; protein; 177 AA.
XX
AC ABU89345;
XX
DT 08-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO10272.
XX
KW Human; secreted and transmembrane protein; PRO; ATCC 209902;
KW gene therapy; chromosome identification; tissue typing.
XX
OS Homo sapiens.
XX
PN US2003036634-A1.
XX
PD 20-FEB-2003.
XX
PF 02-MAY-2002; 2002US-00063525.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.

```
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-332052/31.
DR   N-PSDB; ACA89366.
XX
PT   New PRO polypeptide and the nucleic acid encoding the PRO polypeptide,
PT   useful in gene therapy, for chromosome identification or for tissue
PT   typing.
XX
PS   Disclosure; Fig 156; 235pp; English.
XX
CC   The invention describes an isolated polypeptide comprising 80 % amino
CC   acid sequence identity with: (a) a sequence comprising 556 amino acids,
CC   given in the specification, or its extracellular domain, with or without
CC   its associated signal peptide; or (b) a sequence of a polypeptide encoded
CC   by a full-length coding sequence of the cDNA deposited under American
CC   Type Culture Collection (ATCC) accession number 209902. The new PRO
CC   polypeptide or the nucleic acid encoding the PRO polypeptide is useful in
CC   gene therapy, for chromosome identification or for tissue typing. This is
CC   the amino acid sequence of a novel human secreted and transmembrane PRO
CC   polypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 18
ABU82552
ID   ABU82552 standard; protein; 177 AA.
XX
AC   ABU82552;
XX
DT   26-JUN-2003  (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO10272.
XX
KW   Human; secreted and transmembrane protein; PRO; cytostatic;
KW   immunotherapy; cancer.
XX
OS   Homo sapiens.
XX
PN   US2002183494-A1.
XX
PD   05-DEC-2002.
XX
PF   02-MAY-2002; 2002US-00063551.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-340981/32.
DR   N-PSDB; ACA69003.
XX
PT   New antibody that specifically binds to a PRO polypeptide, useful in
PT   preparing a medicament for treating a condition, e.g. cancer, responsive
PT   to the antibody, and in diagnostic and purification assays for the PRO
```

```
PT   polypeptide.
XX
PS   Disclosure; Fig 156; 235pp; English.
XX
CC   The invention describes an antibody that binds to a novel human secreted
CC   and transmembrane PRO polypeptide. The antibody is useful in preparing a
CC   medicament for treating a condition e.g. cancer. The antibody may also be
CC   used in diagnostic assays for PRO polypeptide in specific cells, tissue
CC   or serum, and in affinity purification of the polypeptide. This is the
CC   amino acid sequence of a novel human secreted and transmembrane PRO
CC   polypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 19
ABU72594
ID   ABU72594 standard; protein; 177 AA.
XX
AC   ABU72594;
XX
DT   17-JUN-2003  (first entry)
XX
DE   Human IL-17 family member, PRO10272, h-IL17E.
XX
KW   Human; interleukin-17; IL-17; cytokine; T-lymphocyte; inflammatory cell;
KW   angiogenesis; gene therapy; immune-related disorder;
KW   systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;
KW   systemic sclerosis; idiopathic inflammatory myopathy; Sjogren's syndrome;
KW   sarcoidosis; autoimmune haemolytic anaemia; thyroiditis; psoriasis;
KW   diabetes mellitus; demyelinating disease; Guillain-Barre syndrome;
KW   autoimmune chronic active hepatitis; primary biliary cirrhosis;
KW   inflammatory bowel disease; immune-mediated skin disease;
KW   contact dermatitis; allergic disease; asthma; urticaria;
KW   eosinophilic pneumonia; idiopathic pulmonary fibrosis;
KW   transplantation-associated disease; graft-versus-host disease.
XX
OS   Homo sapiens.
XX
PN   US2003008815-A1.
XX
PD   09-JAN-2003.
XX
PF   20-DEC-2000; 2000US-00747259.
XX
PR   14-MAY-1999;   99US-00311832.
PR   23-DEC-1999;   99US-0172096P.
PR   30-DEC-1999;   99WO-US031274.
PR   11-JAN-2000; 2000US-0175481P.
PR   18-FEB-2000; 2000WO-US004341.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000US-0191007P.
PR   21-MAR-2000; 2000WO-US007532.
PR   02-JUN-2000; 2000WO-US015264.
PR   20-JUN-2000; 2000US-0213087P.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   24-OCT-2000; 2000US-0242837P.
PR   10-NOV-2000; 2000WO-US030873.
PR   28-NOV-2000; 2000US-0253646P.
PR   01-DEC-2000; 2000WO-US032678.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Chen J,  Filvaroff E,  Fong S,  Goddard A,  Godowski PJ,  Grimaldi C;
PI   Gurney AL,  Li H,  Hillan K,  Tumas D,  Vanlookeren M,  Vandlen R;
PI   Watanabe C,  Williams PM,  Wood WI,  Yansura DG;
XX
DR   WPI; 2003-341350/32.
DR   N-PSDB; ACA64636.
XX
PT   New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO1031,
PT   PRO1122, PRO10272, useful in molecular biology, chromosome and gene
PT   mapping, in generating antisense RNA and DNA, and in gene therapy.
XX
PS   Claim 10; Fig 6; 148pp; English.
XX
CC   The invention relates to an isolated nucleic acid comprising at least 80%
CC   sequence identity to 8 cDNA sequences encoding PRO polypeptides (or their
CC   extracellular domains) which are members of the interleukin-17 (IL-17)
CC   family of cytokines. Also included are expression vectors, host cells,
CC   the PRO polypeptides, chimaeric molecules comprising the above
CC   polypeptides fused to a heterologous amino acid sequence, an anti-PRO
CC   antibody, a composition comprising the above polypeptide (or its agonist
CC   or antagonist, or the antibody cited above) in combination with a
CC   carrier, determining the presence of a PRO polypeptide in a sample,
CC   identifying a compound that mimics or inhibits the activity of the PRO
CC   polypeptides cited above, or a compound that inhibits the expression of a
CC   gene encoding the above polypeptides, stimulating or inhibiting the
CC   proliferation of T-lymphocytes, enhancing or decreasing the infiltration
CC   of inflammatory cells into a tissue of a mammal and inhibiting or
CC   stimulating angiogenesis induced by a PRO1031 polypeptide or its agonist
CC   in a mammal. The nucleic acid is useful in molecular biology, e.g. use as
CC   hybridisation probes, in chromosome and gene mapping, in generating
CC   antisense RNA and DNA, and in gene therapy. The polynucleotide may also
CC   be used in preparing PRO polypeptides by recombinant techniques, and in
CC   generating either transgenic animals or knock-out animals which, in turn,
CC   are useful in the development and screening of therapeutically useful
CC   reagents. The PRO polypeptide or the antibody is used in preparing a
CC   medicament for treating a condition responsive to the polypeptide or
CC   antibody, and in various diagnostic assays. For immune-related disorders,
CC   these may be systemic lupus erythematosus, rheumatoid arthritis,
CC   osteoarthritis, juvenile chronic arthritis, spondyloarthropathy, systemic
CC   sclerosis, idiopathic inflammatory myopathy, Sjogren's syndrome, systemic
CC   vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
CC   thrombocytopaenia, thyroiditis, diabetes mellitus, immune-mediated renal
CC   disease, demyelinating disease of the central or peripheral nervous
CC   system, idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome,
CC   chronic inflammatory demyelinating polyneuropathy, hepatobiliary disease,
CC   infectious or autoimmune chronic active hepatitis, primary biliary
CC   cirrhosis, granulomatous hepatitis, sclerosing cholangitis, inflammatory
CC   bowel disease, gluten-sensitive enteropathy, Whipple's disease,
CC   autoimmune or immune-mediated skin disease, bullous skin disease,
CC   erythema multiforme, contact dermatitis, psoriasis, allergic disease,
CC   asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity,
CC   urticaria, immunologic disease of the lung, eosinophilic pneumonias,
CC   idiopathic pulmonary fibrosis, hypersensitivity pneumonitis,
CC   transplantation- associated disease, graft rejection or graft-versus-host
CC   disease. The composition is useful in treating the above-mentioned immune
CC   -related diseases in a mammal, or in increasing or inhibiting the
CC   proliferation of T-lymphocytes, or increasing or decreasing the
CC   infiltration of inflammatory cells into a tissue of a mammal. The present
CC   sequence represents a PRO polypeptide of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 20
ABU96516
ID   ABU96516 standard; protein; 177 AA.
XX
AC   ABU96516;
XX
DT   25-JUL-2003  (first entry)
XX
DE   Human PRO polypeptide #78.
XX
KW   Human; PRO; antibody; affinity purification.
XX
OS   Homo sapiens.
XX
PN   US2003027993-A1.
XX
PD   06-FEB-2003.
XX
PF   02-MAY-2002; 2002US-00063537.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-417284/39.
DR   N-PSDB; ACA98525.
XX
PT   New anti-PRO antibody, useful in diagnostic assays for PRO polypeptide or
PT   for affinity purification of PRO from the recombinant cell culture or
PT   natural source.
XX
PS   Disclosure; Fig 156; 236pp; English.
XX
CC   The invention relates to an antibody which binds to a PRO polypeptide.
CC   The antibody is useful in diagnostic assays for the PRO polypeptide or
CC   for affinity purification of PRO from a recombinant cell culture or
CC   natural source. Sequences ABU96439-ABU96522 represent human PRO
CC   polypeptides of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 21
ABU72186
ID   ABU72186 standard; protein; 177 AA.
XX
AC   ABU72186;
XX
DT   13-JUN-2003  (first entry)
XX
DE   Human PRO polypeptide #78.
XX
KW   Human; PRO polypeptide; secreted and transmembrane protein;
KW   anti-PRO antibody; diagnostic assay; gene expression.
XX
OS   Homo sapiens.
XX
PN   US2003023042-A1.
XX
PD   30-JAN-2003.
XX
PF   01-MAY-2002; 2002US-00063502.
XX
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-331484/31.
DR   N-PSDB; ACA63450.
XX
PT   Novel monoclonal antibody that binds to secreted and transmembrane
PT   polypeptide, useful for detecting and purifying the polypeptide and also
PT   for treating conditions responsive to the antibody.
XX
PS   Disclosure; Fig 156; 408pp; English.
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XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides, and the polynucleotide sequences encoding them. The PRO
CC   polypeptides are secreted and transmembrane proteins. The PRO
CC   polypeptides and polynucleotides are useful for preparing a medicament
CC   useful in the treatment of a condition responsive to anti-PRO antibody.
CC   Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting
CC   its expression in specific cells, tissues or serum, and for affinity
CC   purification of PRO from recombinant cell culture or natural sources.
CC   ABU72109-ABU72192 represent the human PRO polypeptides of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 22
ADA26944
ID   ADA26944 standard; protein; 177 AA.
XX
AC   ADA26944;
XX
DT   20-NOV-2003  (first entry)
XX
DE   Human PRO polypeptide #9.
XX
KW   Human; PRO polypeptide; immune related disease;
KW   T-lymphocyte proliferation; inflammatory cell; mononuclear cell;
KW   eosinophil; polymorphonuclear neutrophil; rheumatoid arthritis;
KW   diabetes mellitus; autoimmune disease; antiinflammatory;
KW   immunosuppressive; antidiabetic.
XX
OS   Homo sapiens.
XX
PN   US2003087380-A1.
XX
PD   08-MAY-2003.
XX
PF   05-AUG-2002; 2002US-00213182.
XX
PR   23-DEC-1999;   99US-0172059P.
PR   10-NOV-2000; 2000WO-US030873.
PR   18-JAN-2002; 2002US-00052594.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Fong S,  Goddard A,  Godowski PJ,  Grimaldi JC,  Gurney AL;
PI   Hillan KJ,  Tumas D,  Watanabe CK,  Wood WI,  Zhang Z;
XX
DR   WPI; 2003-635176/60.
DR   N-PSDB; ADA26943.
XX
PT   New PRO nucleic acid, useful for preparing a composition for treating an
PT   immune related disease in a mammal e.g., rheumatoid arthritis, diabetes
PT   mellitus or autoimmune disease.
XX
PS   Claim 10; Fig 18; 98pp; English.
XX
CC   The present invention relates to the isolation of human PRO polypeptides,
CC   and the polynucleotide sequences encoding them. The PRO polypeptide and
CC   polynucleotide sequences are useful for diagnosing or treating an immune
CC   related disease in a mammal. The sequences are useful for stimulating the
CC   proliferation of T-lymphocytes, inhibiting the proliferation of T-
CC   lymphocytes, and enhancing the infiltration of inflammatory cells into a
CC   tissue of a mammal. The inflammatory cells are mononuclear cells,
CC   eosinophils or polymorphonuclear neutrophils. The polynucleotide
CC   sequences encoding the PRO polypeptides are useful for preparing a
CC   composition for treating an immune related disease in a mammal e.g.
CC   rheumatoid arthritis, diabetes mellitus or autoimmune disease. The
CC   present sequence represents a human PRO polypeptide of the invention.
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 23
ADB17213
ID   ADB17213 standard; protein; 177 AA.
XX
AC   ADB17213;
XX
DT   20-NOV-2003  (first entry)
XX
DE   Human transmembrane PRO polypeptide (SeqID 156).
XX
KW   PRO; transmembrane; immunoconjugate; cytotoxic; gene therapy; cytostatic;
KW   cancer; human.
XX
OS   Homo sapiens.
XX
PN   US2003050462-A1.
XX
PD   13-MAR-2003.
XX
PF   03-MAY-2002; 2002US-00063598.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
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PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-521820/49.
DR   N-PSDB; ADB17212.
XX
PT   New secreted and transmembrane PRO polypeptide, useful for preparing a
PT   composition for diagnosing or treating cancer and as a molecular weight
PT   marker.
XX
PS   Disclosure; Fig 156; 235pp; English.
XX
CC   This invention relates to a novel isolated and secreted PRO polypeptide.
CC   PRO is a transmembrane protein involved in the formation, differentiation
CC   and maintenance of multicellular organisms, and more particularly the
CC   proliferation, differentiation and migration of individual cells. The
CC   invention describes screening compounds to identify PRO polypeptide
CC   agonists and antagonists, anti-PRO antibodies, and immunoconjugates
CC   comprising an antibody conjugated to a cytotoxic agent. Specifically, the
CC   heterologous protein of the chimeric polypeptide is an epitope tag or an
CC   Fc region of an immunoglobulin. Through the use of gene therapy, the PRO
CC   polypeptide is useful for preparing cytostatic compositions for
CC   diagnosing or treating cancer. The polypeptide is also useful as a
CC   molecular weight marker for protein electrophoresis purposes. This
CC   polypeptide sequence is a human PRO polypeptide, encoded by a native
CC   clone of the cDNA library of the invention.
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 24
ADA43229
ID   ADA43229 standard; protein; 177 AA.
XX
AC   ADA43229;
XX
DT   20-NOV-2003  (first entry)
XX
DE   Human interleukin 17 related mammalian cytokine polypeptide #3.
XX
KW   interleukin 17; cytokine; IL-17E; immune-related disease;
KW   inflammatory disease; psoriasis; asthma; allergic rhinitis;
KW   rheumatoid arthritis; human; interleukin 17 related mammalian cytokine.
XX
OS   Homo sapiens.
XX
PN   US6579520-B2.
XX
PD   17-JUN-2003.
XX
PF   22-MAR-2001; 2001US-00816744.
XX
PR   15-MAY-1998;   98US-0085579P.
PR   23-DEC-1998;   98US-0113621P.
PR   21-APR-1999;   99US-0130232P.
PR   26-APR-1999;   99US-0131022P.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99US-0134287P.
PR   09-JUN-1999;   99US-0138387P.
PR   23-DEC-1999;   99US-0172096P.
PR   11-JAN-2000; 2000US-0175481P.
PR   21-MAR-2000; 2000US-0191007P.
PR   22-JUN-2000; 2000US-0213807P.
PR   24-OCT-2000; 2000US-0242837P.
PR   26-OCT-2000; 2000US-0244072P.
PR   28-NOV-2000; 2000US-0253646P.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Chen J,  Filvaroff E,  Fong S,  Goddard A,  Godowski P,  Grimaldi C;
PI   Gurney A,  Li H,  Hillan K,  Tumas D,  Vanlookeren M,  Vandlen R;
PI   Watanabe C,  Williams PM,  Wood WI,  Yansura D;
XX
DR   WPI; 2003-615512/58.
DR   N-PSDB; ADA43228.
XX
PT   New interleukin 17 related mammalian cytokine polypeptide (IL-17E)
PT   polypeptide, useful for preparing composition for treating immune-related
PT   or inflammatory diseases, e.g. psoriasis, asthma, allergic rhinitis or
PT   rheumatoid arthritis.
XX
PS   Claim 1; Fig 6; 235pp; English.
XX
CC   The invention relates to a new isolated interleukin 17 related mammalian
CC   cytokine polypeptide (IL-17E). The polypeptide is useful for preparing a
CC   composition for treating immune-related or inflammatory diseases, e.g.
CC   psoriasis, asthma, allergic rhinitis or rheumatoid arthritis. The present
CC   sequence represents the amino acid sequence of a human interleukin 17
CC   related mammalian cytokine polypeptide.
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 177;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-170;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 25
ABO44316
```

ID ABO44316 standard; protein; 177 AA.
XX
AC ABO44316;
XX
DT 26-SEP-2003 (first entry)
XX
DE Human secreted/transmembrane polypeptide PRO 10272.
XX
KW Human; tumour; cancer; tissue typing.
XX
OS Homo sapiens.
XX
PN US2003018172-A1.
XX
PD 23-JAN-2003.
XX
PF 01-MAY-2002; 2002US-00063513.
XX
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-479475/45.
DR N-PSDB; ACH03653.
XX
PT Isolated antibody specifically binding a PRO polypeptide, useful for the
PT diagnosis and treatment of disorders with the aberrant expression or
PT activity of the PRO polypeptide, such as tumor conditions and cancer.
XX
PS Disclosure; Fig 156; 409pp; English.
XX
CC The invention relates to an antibody that binds to a fully defined PRO
CC polypeptide. The antibody is useful for the diagnosis, prevention and/or
CC treatment of disorders associated with the aberrant expression or
CC activity of the PRO polypeptide, such as tumour conditions and cancer.
CC They can also be used to generate transgenic or knockout animals useful
CC in the development and screening of therapeutically useful reagents. The
CC PRO polypeptides and encoding nucleic acids can be used as molecular
CC weight markers for protein electrophoresis, chromosome identification and
CC tissue typing. The antibodies may be used in various diagnostic,
CC competitive binding and/or immunoprecipitation assays. The present
CC sequence represents the amino acid sequence of a human secreted and
CC transmembrane PRO polypeptide
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 177; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.8e-170;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Search completed: July 6, 2006, 08:10:18
Job time : 196 secs

GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 08:16:21 ; Search time 177 Seconds
(without alignments)
463.215 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 177
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 2097797 seqs, 463214858 residues

Word size : 1

Total number of hits satisfying chosen parameters: 2096646

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database : Published_Applications_AA_Main:*
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6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	177	100.0	177	3	US-09-874-503-6	Sequence 6, Appli
2	177	100.0	177	3	US-09-816-744-6	Sequence 6, Appli
3	177	100.0	177	3	US-09-747-259-6	Sequence 6, Appli
4	177	100.0	177	3	US-09-908-827-6	Sequence 6, Appli
5	177	100.0	177	4	US-10-006-867-156	Sequence 156, App
6	177	100.0	177	4	US-10-063-547-156	Sequence 156, App
7	177	100.0	177	4	US-10-000-157-6	Sequence 6, Appli
8	177	100.0	177	4	US-10-063-551-156	Sequence 156, App
9	177	100.0	177	4	US-10-063-616-156	Sequence 156, App
10	177	100.0	177	4	US-10-063-569-156	Sequence 156, App
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15	177	100.0	177	4	US-10-063-549-156	Sequence 156, App
16	177	100.0	177	4	US-10-063-554-156	Sequence 156, App
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23	177	100.0	177	4	US-10-063-555-156	Sequence 156, App
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25	177	100.0	177	4	US-10-063-567-156	Sequence 156, App
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27	177	100.0	177	4	US-10-212-912-18	Sequence 18, Appl
28	177	100.0	177	4	US-10-213-044-18	Sequence 18, Appl
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38	177	100.0	177	4	US-10-213-052-18	Sequence 18, Appl
39	177	100.0	177	4	US-10-063-526-156	Sequence 156, App
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41	177	100.0	177	4	US-10-410-927-6	Sequence 6, Appli
42	177	100.0	177	4	US-10-063-546-156	Sequence 156, App
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46	177	100.0	177	4	US-10-063-669-156	Sequence 156, App
47	177	100.0	177	4	US-10-063-670-156	Sequence 156, App
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49	177	100.0	177	4	US-10-063-674-156	Sequence 156, App
50	177	100.0	177	4	US-10-063-675-156	Sequence 156, App
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53	177	100.0	177	4	US-10-063-689-156	Sequence 156, App
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55	177	100.0	177	4	US-10-063-693-156	Sequence 156, App
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59	177	100.0	177	4	US-10-063-702-156	Sequence 156, App
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66	177	100.0	177	4	US-10-063-730-156	Sequence 156, App
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68	177	100.0	177	4	US-10-063-736-156	Sequence 156, App
69	177	100.0	177	4	US-10-063-742-156	Sequence 156, App
70	177	100.0	177	4	US-10-063-743-156	Sequence 156, App
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86	177	100.0	177	4	US-10-063-726-156	Sequence 156, App
87	177	100.0	177	4	US-10-063-728-156	Sequence 156, App
88	177	100.0	177	4	US-10-063-731-156	Sequence 156, App
89	177	100.0	177	4	US-10-063-732-156	Sequence 156, App
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95	177	100.0	177	4	US-10-063-589-156	Sequence 156, App
96	177	100.0	177	4	US-10-063-593-156	Sequence 156, App
97	177	100.0	177	4	US-10-063-596-156	Sequence 156, App
98	177	100.0	177	4	US-10-063-600-156	Sequence 156, App
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100	177	100.0	177	4	US-10-063-607-156	Sequence 156, App

ALIGNMENTS

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RESULT 1
US-09-874-503-6
; Sequence 6, Application US/09874503
; Patent No. US20020177188A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth J.
;  APPLICANT:  Hymowitz,Sarah G.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Starovasnik,Melissa A.
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P3(US)
;  CURRENT APPLICATION NUMBER: US/09/874,503
;  CURRENT FILING DATE:  2001-06-05
;  PRIOR APPLICATION NUMBER: US 60/253,646
;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: US 60/244,072
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 60/242,837
;  PRIOR FILING DATE: 2000-10-24
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: US 60/213,807
;  PRIOR FILING DATE: 2000-06-22
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: US 60/138,387
;  PRIOR FILING DATE: 1999-06-09
;  PRIOR APPLICATION NUMBER: US 60/134,287
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/131,022
;  PRIOR FILING DATE: 1999-04-26
;  PRIOR APPLICATION NUMBER: US 60/130,232
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: US 60/113,621
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: US 60/085,579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: US 09/854,208
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: US 09/854,280
;  PRIOR FILING DATE: 2001-05-20
;  PRIOR APPLICATION NUMBER: US 09/816,744
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: US 09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/644,848
;  PRIOR FILING DATE: 2000-08-22
;  PRIOR APPLICATION NUMBER: US 09/380,142
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: US 09/380,138
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US PCT/US01/06520
;  PRIOR FILING DATE: 2001-02-28
;  PRIOR APPLICATION NUMBER: US PCT/US00/34956
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: US PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: US PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: US PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  PRIOR APPLICATION NUMBER: US PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: US PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US PCT/US00/05601
;  PRIOR FILING DATE: 2000-03-01
;  PRIOR APPLICATION NUMBER: US PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: US PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US PCT/US99/10733
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US PCT/US99/05028
;  PRIOR FILING DATE: 1999-03-08
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-874-503-6

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  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 2
US-09-816-744-6
; Sequence 6, Application US/09816744
; Publication No. US20030003546A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
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;  FILE REFERENCE: P1381R1C1P2(US)
;  CURRENT APPLICATION NUMBER: US/09/816,744
;  CURRENT FILING DATE:  2001-03-22
;  Prior application data removed - consult PALM or file wrapper
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-816-744-6

  Query Match             100.0%;  Score 177;  DB 3;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 3
US-09-747-259-6
; Sequence 6, Application US/09747259
; Publication No. US20030008815A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/09/747,259
;  CURRENT FILING DATE:  2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  PRIOR APPLICATION NUMBER: US 60/213,087
;  PRIOR FILING DATE: 2000-06-22
;  PRIOR APPLICATION NUMBER: US 09/644,848
;  PRIOR FILING DATE: 2000-08-22
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: US 60/242,837
;  PRIOR FILING DATE: 2000-10-24
;  PRIOR APPLICATION NUMBER: PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: US 60/253,646
;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-747-259-6

  Query Match             100.0%;  Score 177;  DB 3;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 4
US-09-908-827-6
; Sequence 6, Application US/09908827
; Publication No. US20030054442A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1C1(US)
;  CURRENT APPLICATION NUMBER: US/09/908,827
;  CURRENT FILING DATE:  2001-07-18
;  PRIOR APPLICATION NUMBER: 60/085,579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: 60/113,621
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/130,232
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 60/131,022
;  PRIOR FILING DATE: 1999-04-26
;  PRIOR APPLICATION NUMBER: 60/134,287
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: 60/138,387
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;  PRIOR FILING DATE: 1999-06-09
;  PRIOR APPLICATION NUMBER: 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/213,807
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;  PRIOR APPLICATION NUMBER: 60/242,837
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;  PRIOR FILING DATE: 2000-10-26
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;  PRIOR APPLICATION NUMBER: 09/380,138
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;  PRIOR APPLICATION NUMBER: 09/644,848
;  PRIOR FILING DATE: 2000-08-22
;  PRIOR APPLICATION NUMBER: 09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: 09/816,744
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: 09/854,208
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: 09/854,280
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: PCT/US99/05028
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;  PRIOR FILING DATE: 1999-05-14
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;  PRIOR FILING DATE: 1999-12-30
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;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05601
;  PRIOR FILING DATE: 2000-03-01
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000 08-24
;  PRIOR APPLICATION NUMBER: PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: PCT/US00/34956
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: PCT/US01/06520
;  PRIOR FILING DATE: 2001-02-28
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-908-827-6

  Query Match             100.0%;  Score 177;  DB 3;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 5
US-10-006-867-156
; Sequence 156, Application US/10006867
; Publication No. US20020119130A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/006,867
;  CURRENT FILING DATE:  2001-12-06
;  PRIOR APPLICATION NUMBER: 60/063435
;  PRIOR FILING DATE: 1997-10-29
;  PRIOR APPLICATION NUMBER: 60/064215
;  PRIOR FILING DATE: 1997-10-29
;  PRIOR APPLICATION NUMBER: 60/082797
;  PRIOR FILING DATE: 1998-04-22
;  PRIOR APPLICATION NUMBER: 60/083495
;  PRIOR FILING DATE: 1998-04-29
;  PRIOR APPLICATION NUMBER: 60/085579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: 60/087759
;  PRIOR FILING DATE: 1998-06-02
;  PRIOR APPLICATION NUMBER: 60/088021
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;  PRIOR FILING DATE: 1998-06-10
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;  PRIOR FILING DATE: 1998-06-19
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;  PRIOR FILING DATE: 1998-06-22
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;  PRIOR APPLICATION NUMBER: 60/090696
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;  PRIOR APPLICATION NUMBER: 60/090862
;  PRIOR FILING DATE: 1998-06-26
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; PRIOR APPLICATION NUMBER: 60/091628
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/096012
; PRIOR FILING DATE: 1998-08-10
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; PRIOR FILING DATE: 1998-08-18
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; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 60/106856
; PRIOR FILING DATE: 1998-11-03
; PRIOR APPLICATION NUMBER: 60/108807
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: 60/112419
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; PRIOR APPLICATION NUMBER: 09/380137
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/380138
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/380142

Query Match 100.0%; Score 177; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-163;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 6
US-10-063-547-156
; Sequence 156, Application US/10063547
; Publication No. US20020182638A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,547
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-547-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 7
US-10-000-157-6
; Sequence 6, Application US/10000157
; Publication No. US20020182673A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Goddard, Audrey
;  APPLICANT:  Godowski, Paul L.
;  APPLICANT:  Grimaldi, J.Christopher
;  APPLICANT:  Gurney, Austin
;  APPLICANT:  Li, Hanzhong
;  APPLICANT:  Hillan, Kenneth J.
;  APPLICANT:  Hymowitz, Sarah
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Starovasnik, Melissa.
;  APPLICANT:  VanLookeren, Menno
;  APPLICANT:  Vandlen, Richard
;  APPLICANT:  Watanabe, Colin
;  APPLICANT:  Williams, P.Mickey
;  APPLICANT:  Wood, William
;  APPLICANT:  Yansura, Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P4(US)
;  CURRENT APPLICATION NUMBER: US/10/000,157
;  CURRENT FILING DATE:  2001-10-30
;  PRIOR APPLICATION NUMBER: 60/085579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: 60/113621
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/130232
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 60/131022
;  PRIOR FILING DATE: 1999-04-26
;  PRIOR APPLICATION NUMBER: 60/134287
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: 60/138387
;  PRIOR FILING DATE: 1999-06-09
;  PRIOR APPLICATION NUMBER: 60/172096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: 60/175481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: 60/191007
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;  PRIOR APPLICATION NUMBER: 60/213807
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;  PRIOR APPLICATION NUMBER: 60/242837
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;  PRIOR APPLICATION NUMBER: 09/929404
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;  PRIOR APPLICATION NUMBER: 09/931836
;  PRIOR FILING DATE: 2001-08-16
;  PRIOR APPLICATION NUMBER: PCT/US99/05028
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;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05601
;  PRIOR FILING DATE: 2001-03-01
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
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; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: PCT/US00/30873
; PRIOR FILING DATE: 2000-11-10
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/34956
; PRIOR FILING DATE: 2000-12-20
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; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/17800
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: PCT/US01/19692
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-000-157-6

Query Match 100.0%; Score 177; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-163;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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RESULT 8
US-10-063-551-156
; Sequence 156, Application US/10063551
; Publication No. US20020183494A1
; GENERAL INFORMATION:
; APPLICANT: Eaton,Dan L.
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,Christopher J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3230R1C1
; CURRENT APPLICATION NUMBER: US/10/063,551
; CURRENT FILING DATE: 2002-05-02
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-063-551-156

Query Match 100.0%; Score 177; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-163;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 9
US-10-063-616-156
; Sequence 156, Application US/10063616
; Publication No. US20030013855A1
; GENERAL INFORMATION:
; APPLICANT: Eaton,Dan L.
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,Christopher J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3230R1C1
; CURRENT APPLICATION NUMBER: US/10/063,616
; CURRENT FILING DATE: 2002-05-03
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-063-616-156

Query Match 100.0%; Score 177; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-163;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 10
US-10-063-569-156
; Sequence 156, Application US/10063569
; Publication No. US20030018168A1
; GENERAL INFORMATION:
; APPLICANT: Eaton,Dan L.
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,Christopher J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME

```
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,569
;  CURRENT FILING DATE:  2002-05-02
;     Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;    LENGTH: 177
;    TYPE: PRT
;    ORGANISM: Homo Sapien
US-10-063-569-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 11
US-10-063-513-156
; Sequence 156, Application US/10063513
; Publication No. US20030018172A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,513
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;    LENGTH: 177
;    TYPE: PRT
;    ORGANISM: Homo Sapien
US-10-063-513-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 12
```

```
US-10-063-515-156
; Sequence 156, Application US/10063515
; Publication No. US20030018173A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,515
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;    LENGTH: 177
;    TYPE: PRT
;    ORGANISM: Homo Sapien
US-10-063-515-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 13
US-10-063-512-156
; Sequence 156, Application US/10063512
; Publication No. US20030018183A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,512
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;    LENGTH: 177
;    TYPE: PRT
;    ORGANISM: Homo Sapien
US-10-063-512-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 14
US-10-063-502-156
; Sequence 156, Application US/10063502
; Publication No. US20030023042A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,502
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-502-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 15
US-10-063-549-156
; Sequence 156, Application US/10063549
; Publication No. US20030027986A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,549
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-549-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 16
US-10-063-554-156
; Sequence 156, Application US/10063554
; Publication No. US20030040013A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,554
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-554-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

```
RESULT 17
US-10-063-553-156
; Sequence 156, Application US/10063553
; Publication No. US20030045684A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,553
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-553-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 18
US-10-063-518-156
; Sequence 156, Application US/10063518
; Publication No. US20030049735A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,518
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-518-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 19
US-10-063-598-156
; Sequence 156, Application US/10063598
; Publication No. US20030050462A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,598
;  CURRENT FILING DATE:  2002-05-03
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-598-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 20
US-10-227-693-156
; Sequence 156, Application US/10227693
; Publication No. US20030050465A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
```

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;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C169
;  CURRENT APPLICATION NUMBER: US/10/227,693
;  CURRENT FILING DATE:  2002-08-26
;  PRIOR APPLICATION NUMBER: US 10/006,867
;  PRIOR FILING DATE: 2001-12-06
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: US 09/380,137
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: PCT/US99/12252
;  PRIOR FILING DATE: 1999-06-06
;  PRIOR APPLICATION NUMBER: US 60/096,012
;  PRIOR FILING DATE: 1998-08-10
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-227-693-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 21
US-10-213-181-18
; Sequence 18, Application US/10213181
; Publication No. US20030054484A1
; GENERAL INFORMATION:
;  APPLICANT: Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: Compositions and Methods for the Treatment of Immune
;  TITLE OF INVENTION:  Related Diseases
;  FILE REFERENCE: P3133R1C7
;  CURRENT APPLICATION NUMBER: US/10/213,181
;  CURRENT FILING DATE:  2002-08-05
;  PRIOR APPLICATION NUMBER: US 10/052,594
;  PRIOR FILING DATE: 2002-01-18
;  PRIOR APPLICATION NUMBER: PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: US 60/177,118
;  PRIOR FILING DATE: 2000-01-20
;  NUMBER OF SEQ ID NOS: 24
; SEQ ID NO 18
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-213-181-18

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 22
US-10-063-563-156
; Sequence 156, Application US/10063563
; Publication No. US20030060602A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,563
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-563-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 23
US-10-063-555-156
; Sequence 156, Application US/10063555
; Publication No. US20030065143A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
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;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,555
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-555-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 24
US-10-063-594-156
; Sequence 156, Application US/10063594
; Publication No. US20030065161A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,594
;  CURRENT FILING DATE:  2002-05-30
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-594-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 25
US-10-063-567-156
; Sequence 156, Application US/10063567
; Publication No. US20030069394A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,567
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-567-156

  Query Match             100.0%;  Score 177;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-163;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


Search completed: July  6, 2006, 08:20:05
Job time : 177 secs
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GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 08:17:21 ; Search time 21 Seconds
(without alignments)
226.156 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 177
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 112942 seqs, 26832045 residues

Word size : 1

Total number of hits satisfying chosen parameters: 112925

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database : Published_Applications_AA_New:*
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2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
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8: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	177	100.0	177	7	US-11-311-555-6	Sequence 6, Appli
2	177	100.0	177	7	US-11-311-561-6	Sequence 6, Appli
3	177	100.0	177	7	US-11-101-316-156	Sequence 156, App
4	177	100.0	177	7	US-11-311-554-6	Sequence 6, Appli
5	7	4.0	65	6	US-10-953-349-3137	Sequence 3137, Ap
6	7	4.0	145	6	US-10-953-349-1230	Sequence 1230, Ap
7	7	4.0	172	6	US-10-953-349-1228	Sequence 1228, Ap
8	7	4.0	264	6	US-10-953-349-31925	Sequence 31925, A
9	7	4.0	264	6	US-10-449-902-47552	Sequence 47552, A
10	7	4.0	299	6	US-10-953-349-31924	Sequence 31924, A
11	7	4.0	308	6	US-10-953-349-27751	Sequence 27751, A
12	7	4.0	325	6	US-10-449-902-55144	Sequence 55144, A
13	7	4.0	335	6	US-10-953-349-27750	Sequence 27750, A
14	7	4.0	341	6	US-10-953-349-879	Sequence 879, App
15	7	4.0	341	6	US-10-953-349-31923	Sequence 31923, A
16	7	4.0	343	6	US-10-449-902-43568	Sequence 43568, A
17	7	4.0	347	6	US-10-953-349-878	Sequence 878, App
18	7	4.0	358	6	US-10-953-349-877	Sequence 877, App
19	7	4.0	475	6	US-10-449-902-56262	Sequence 56262, A
20	6	3.4	60	6	US-10-449-902-34759	Sequence 34759, A
21	6	3.4	67	6	US-10-953-349-13148	Sequence 13148, A
22	6	3.4	86	6	US-10-449-902-54198	Sequence 54198, A
23	6	3.4	86	6	US-10-449-902-55748	Sequence 55748, A
24	6	3.4	97	6	US-10-953-349-27092	Sequence 27092, A
25	6	3.4	108	7	US-11-219-121-10	Sequence 10, Appl
26	6	3.4	110	7	US-11-254-679-38	Sequence 38, Appl
27	6	3.4	110	7	US-11-254-679-42	Sequence 42, Appl
28	6	3.4	110	7	US-11-094-132-76	Sequence 76, Appl
29	6	3.4	111	7	US-11-219-563-77	Sequence 77, Appl
30	6	3.4	112	7	US-11-219-563-81	Sequence 81, Appl
31	6	3.4	112	7	US-11-219-563-82	Sequence 82, Appl
32	6	3.4	119	6	US-10-449-902-36235	Sequence 36235, A
33	6	3.4	130	7	US-11-293-697-3437	Sequence 3437, Ap
34	6	3.4	138	6	US-10-953-349-27090	Sequence 27090, A
35	6	3.4	138	6	US-10-953-349-34325	Sequence 34325, A
36	6	3.4	149	6	US-10-953-349-39614	Sequence 39614, A
37	6	3.4	159	6	US-10-953-349-34324	Sequence 34324, A
38	6	3.4	166	7	US-11-293-697-4129	Sequence 4129, Ap
39	6	3.4	169	6	US-10-449-902-40175	Sequence 40175, A
40	6	3.4	174	7	US-11-219-121-12	Sequence 12, Appl
41	6	3.4	181	6	US-10-953-349-39613	Sequence 39613, A
42	6	3.4	190	6	US-10-449-902-42423	Sequence 42423, A
43	6	3.4	197	6	US-10-511-937-2611	Sequence 2611, Ap
44	6	3.4	197	6	US-10-196-749-448	Sequence 448, App
45	6	3.4	197	7	US-11-311-555-4	Sequence 4, Appli
46	6	3.4	197	7	US-11-311-561-4	Sequence 4, Appli
47	6	3.4	197	7	US-11-311-554-4	Sequence 4, Appli
48	6	3.4	197	7	US-11-253-200-17	Sequence 17, Appl
49	6	3.4	201	6	US-10-953-349-39461	Sequence 39461, A
50	6	3.4	202	7	US-11-253-200-19	Sequence 19, Appl
51	6	3.4	238	7	US-11-298-020-10	Sequence 10, Appl
52	6	3.4	250	6	US-10-953-349-39460	Sequence 39460, A
53	6	3.4	253	6	US-10-953-349-27015	Sequence 27015, A
54	6	3.4	261	6	US-10-196-749-356	Sequence 356, App
55	6	3.4	261	7	US-11-101-316-118	Sequence 118, App
56	6	3.4	275	6	US-10-449-902-29941	Sequence 29941, A
57	6	3.4	275	6	US-10-449-902-31846	Sequence 31846, A
58	6	3.4	278	6	US-10-953-349-36711	Sequence 36711, A
59	6	3.4	286	7	US-11-133-075-63	Sequence 63, Appl
60	6	3.4	298	6	US-10-953-349-36710	Sequence 36710, A
61	6	3.4	302	6	US-10-953-349-27014	Sequence 27014, A
62	6	3.4	308	6	US-10-953-349-20979	Sequence 20979, A
63	6	3.4	311	6	US-10-953-349-27013	Sequence 27013, A
64	6	3.4	316	6	US-10-505-928-89	Sequence 89, Appl
65	6	3.4	317	7	US-11-315-825-26	Sequence 26, Appl
66	6	3.4	319	6	US-10-449-902-44046	Sequence 44046, A
67	6	3.4	322	6	US-10-449-902-55874	Sequence 55874, A
68	6	3.4	323	6	US-10-953-349-36709	Sequence 36709, A
69	6	3.4	337	6	US-10-196-749-268	Sequence 268, App
70	6	3.4	337	7	US-11-101-316-74	Sequence 74, Appl
71	6	3.4	343	6	US-10-953-349-3502	Sequence 3502, Ap
72	6	3.4	347	6	US-10-953-349-20978	Sequence 20978, A
73	6	3.4	350	6	US-10-953-349-36317	Sequence 36317, A
74	6	3.4	351	6	US-10-953-349-3501	Sequence 3501, Ap
75	6	3.4	357	6	US-10-449-902-38415	Sequence 38415, A
76	6	3.4	358	7	US-11-293-697-3794	Sequence 3794, Ap
77	6	3.4	358	7	US-11-289-102-313	Sequence 313, App
78	6	3.4	359	6	US-10-953-349-5853	Sequence 5853, Ap
79	6	3.4	364	6	US-10-953-349-20977	Sequence 20977, A
80	6	3.4	370	6	US-10-449-902-43065	Sequence 43065, A
81	6	3.4	375	6	US-10-953-349-3500	Sequence 3500, Ap
82	6	3.4	379	6	US-10-953-349-19483	Sequence 19483, A
83	6	3.4	382	6	US-10-953-349-12910	Sequence 12910, A
84	6	3.4	392	6	US-10-953-349-19482	Sequence 19482, A
85	6	3.4	399	6	US-10-449-902-35021	Sequence 35021, A
86	6	3.4	401	6	US-10-953-349-19481	Sequence 19481, A
87	6	3.4	404	6	US-10-449-902-49955	Sequence 49955, A
88	6	3.4	405	7	US-11-293-697-3958	Sequence 3958, Ap
89	6	3.4	417	6	US-10-449-902-39174	Sequence 39174, A
90	6	3.4	426	6	US-10-449-902-33194	Sequence 33194, A
91	6	3.4	438	6	US-10-953-349-6468	Sequence 6468, Ap
92	6	3.4	443	6	US-10-449-902-31302	Sequence 31302, A
93	6	3.4	443	6	US-10-449-902-44891	Sequence 44891, A
94	6	3.4	443	6	US-10-449-902-50363	Sequence 50363, A
95	6	3.4	450	6	US-10-953-349-30747	Sequence 30747, A
96	6	3.4	453	6	US-10-953-349-22994	Sequence 22994, A
97	6	3.4	454	6	US-10-449-902-43504	Sequence 43504, A
98	6	3.4	455	6	US-10-449-902-34762	Sequence 34762, A

99	6	3.4	455	6	US-10-449-902-55353	Sequence 55353, A
100	6	3.4	459	6	US-10-953-349-30746	Sequence 30746, A

ALIGNMENTS

RESULT 1
US-11-311-555-6
; Sequence 6, Application US/11311555
; Publication No. US20060088916A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P1(US)
; CURRENT APPLICATION NUMBER: US/11/311,555
; CURRENT FILING DATE: 2005-12-20
; PRIOR APPLICATION NUMBER: US/09/747,259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 09/311,832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/172,096
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-311-555-6

Query Match 100.0%; Score 177; DB 7; Length 177;
Best Local Similarity 100.0%; Pred. No. 4.3e-182;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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RESULT 2
US-11-311-561-6
; Sequence 6, Application US/11311561
; Publication No. US20060088917A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P1(US)
; CURRENT APPLICATION NUMBER: US/11/311,561
; CURRENT FILING DATE: 2005-12-20
; PRIOR APPLICATION NUMBER: US/09/747,259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 09/311,832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/172,096
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-311-561-6

Query Match 100.0%; Score 177; DB 7; Length 177;
Best Local Similarity 100.0%; Pred. No. 4.3e-182;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 3
US-11-101-316-156
; Sequence 156, Application US/11101316
; Publication No. US20060099657A1
; GENERAL INFORMATION:
;  APPLICANT: Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: ANTIBODIES TO A POLYPEPTIDE ENCODED BY A NUCLEIC ACID
;  TITLE OF INVENTION:  UNDEREXPRESSED IN MELANOMA
;  FILE REFERENCE: P3230R1C17C1
;  CURRENT APPLICATION NUMBER: US/11/101,316
;  CURRENT FILING DATE:  2005-04-06
;  PRIOR APPLICATION NUMBER: 10/063526
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: 10/006867
;  PRIOR FILING DATE: 2001-12-06
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: 09/380137
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: PCT/US99/12252
;  PRIOR FILING DATE: 1999-06-02
;  PRIOR APPLICATION NUMBER: 60/087759
;  PRIOR FILING DATE: 1998-06-02
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-101-316-156

  Query Match             100.0%;  Score 177;  DB 7;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-182;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 4
US-11-311-554-6
; Sequence 6, Application US/11311554
; Publication No. US20060134755A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,554
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-554-6

  Query Match             100.0%;  Score 177;  DB 7;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-182;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 5
US-10-953-349-3137
; Sequence 3137, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3137
;   LENGTH: 65
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-10-953-349-3137

  Query Match              4.0%;  Score 7;  DB 6;  Length 65;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
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  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
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Db         18 SLISLFL 24


RESULT 6
US-10-953-349-1230
; Sequence 1230, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1230
;   LENGTH: 145
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-10-953-349-1230

  Query Match             4.0%;  Score 7;  DB 6;  Length 145;
  Best Local Similarity   100.0%;  Pred. No. 4.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
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Db          4 QVVAFLA 10


RESULT 7
US-10-953-349-1228
; Sequence 1228, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1228
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-10-953-349-1228

  Query Match             4.0%;  Score 7;  DB 6;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 5.1;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db         31 QVVAFLA 37


RESULT 8
US-10-953-349-31925
; Sequence 31925, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31925
;   LENGTH: 264
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-10-953-349-31925

  Query Match             4.0%;  Score 7;  DB 6;  Length 264;
  Best Local Similarity   100.0%;  Pred. No. 7.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
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Db        117 QVVAFLA 123


RESULT 9
US-10-449-902-47552
; Sequence 47552, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
;  APPLICANT: National Institute of Agrobiological Sciences.
;  APPLICANT:  Bio-oriented Technology Research Advancement Institution.
;  APPLICANT:  The Institute of Physical and Chemical Research.
;  APPLICANT:  Foundation for Advancement of International Science.
;  TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
;  FILE REFERENCE: MOA-A0205Y1-US
;  CURRENT APPLICATION NUMBER: US/10/449,902
;  CURRENT FILING DATE:  2003-05-29
;  PRIOR APPLICATION NUMBER: JP 2002-203269
;  PRIOR FILING DATE: 2002-05-30
;  PRIOR APPLICATION NUMBER: JP 2002-383870
;  PRIOR FILING DATE: 2002-12-11
;  NUMBER OF SEQ ID NOS: 56791
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 47552
;   LENGTH: 264
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-10-449-902-47552

  Query Match             4.0%;  Score 7;  DB 6;  Length 264;
  Best Local Similarity   100.0%;  Pred. No. 7.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db        117 QVVAFLA 123


RESULT 10
US-10-953-349-31924
; Sequence 31924, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31924
;   LENGTH: 299
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-10-953-349-31924

  Query Match             4.0%;  Score 7;  DB 6;  Length 299;
  Best Local Similarity   100.0%;  Pred. No. 8.5;
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  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
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Db        152 QVVAFLA 158


RESULT 11
US-10-953-349-27751
; Sequence 27751, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27751
;   LENGTH: 308
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-10-953-349-27751

  Query Match             4.0%;  Score 7;  DB 6;  Length 308;
  Best Local Similarity   100.0%;  Pred. No. 8.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         58 PVPPLEP 64
              |||||||
Db         47 PVPPLEP 53


RESULT 12
US-10-449-902-55144
; Sequence 55144, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
;  APPLICANT: National Institute of Agrobiological Sciences.
;  APPLICANT:  Bio-oriented Technology Research Advancement Institution.
;  APPLICANT:  The Institute of Physical and Chemical Research.
;  APPLICANT:  Foundation for Advancement of International Science.
;  TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
;  FILE REFERENCE: MOA-A0205Y1-US
;  CURRENT APPLICATION NUMBER: US/10/449,902
;  CURRENT FILING DATE:  2003-05-29
;  PRIOR APPLICATION NUMBER: JP 2002-203269
;  PRIOR FILING DATE: 2002-05-30
;  PRIOR APPLICATION NUMBER: JP 2002-383870
;  PRIOR FILING DATE: 2002-12-11
;  NUMBER OF SEQ ID NOS: 56791
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55144
;   LENGTH: 325
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-10-449-902-55144

  Query Match             4.0%;  Score 7;  DB 6;  Length 325;
  Best Local Similarity   100.0%;  Pred. No. 9.1;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db        178 QVVAFLA 184


RESULT 13
US-10-953-349-27750
; Sequence 27750, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27750
;   LENGTH: 335
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-10-953-349-27750

  Query Match             4.0%;  Score 7;  DB 6;  Length 335;
  Best Local Similarity   100.0%;  Pred. No. 9.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         58 PVPPLEP 64
              |||||||
Db         74 PVPPLEP 80


RESULT 14
US-10-953-349-879
; Sequence 879, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 879
;   LENGTH: 341
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-10-953-349-879

  Query Match             4.0%;  Score 7;  DB 6;  Length 341;
  Best Local Similarity   100.0%;  Pred. No. 9.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db        194 QVVAFLA 200


RESULT 15
US-10-953-349-31923
; Sequence 31923, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31923
;   LENGTH: 341
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-10-953-349-31923

  Query Match             4.0%;  Score 7;  DB 6;  Length 341;
  Best Local Similarity   100.0%;  Pred. No. 9.5;
```

```
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db        194 QVVAFLA 200


RESULT 16
US-10-449-902-43568
; Sequence 43568, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
;  APPLICANT: National Institute of Agrobiological Sciences.
;  APPLICANT:  Bio-oriented Technology Research Advancement Institution.
;  APPLICANT:  The Institute of Physical and Chemical Research.
;  APPLICANT:  Foundation for Advancement of International Science.
;  TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
;  FILE REFERENCE: MOA-A0205Y1-US
;  CURRENT APPLICATION NUMBER: US/10/449,902
;  CURRENT FILING DATE:  2003-05-29
;  PRIOR APPLICATION NUMBER: JP 2002-203269
;  PRIOR FILING DATE: 2002-05-30
;  PRIOR APPLICATION NUMBER: JP 2002-383870
;  PRIOR FILING DATE: 2002-12-11
;  NUMBER OF SEQ ID NOS: 56791
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43568
;   LENGTH: 343
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-10-449-902-43568

  Query Match             4.0%;  Score 7;  DB 6;  Length 343;
  Best Local Similarity   100.0%;  Pred. No. 9.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db        196 QVVAFLA 202


RESULT 17
US-10-953-349-878
; Sequence 878, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 878
;   LENGTH: 347
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-10-953-349-878

  Query Match             4.0%;  Score 7;  DB 6;  Length 347;
  Best Local Similarity   100.0%;  Pred. No. 9.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db        200 QVVAFLA 206


RESULT 18
US-10-953-349-877
; Sequence 877, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 877
;   LENGTH: 358
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-10-953-349-877

  Query Match             4.0%;  Score 7;  DB 6;  Length 358;
  Best Local Similarity   100.0%;  Pred. No. 10;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLA 25
              |||||||
Db        211 QVVAFLA 217


RESULT 19
US-10-449-902-56262
; Sequence 56262, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
;  APPLICANT: National Institute of Agrobiological Sciences.
;  APPLICANT:  Bio-oriented Technology Research Advancement Institution.
;  APPLICANT:  The Institute of Physical and Chemical Research.
;  APPLICANT:  Foundation for Advancement of International Science.
;  TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
;  FILE REFERENCE: MOA-A0205Y1-US
;  CURRENT APPLICATION NUMBER: US/10/449,902
;  CURRENT FILING DATE:  2003-05-29
;  PRIOR APPLICATION NUMBER: JP 2002-203269
;  PRIOR FILING DATE: 2002-05-30
;  PRIOR APPLICATION NUMBER: JP 2002-383870
;  PRIOR FILING DATE: 2002-12-11
;  NUMBER OF SEQ ID NOS: 56791
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 56262
;   LENGTH: 475
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-10-449-902-56262

  Query Match             4.0%;  Score 7;  DB 6;  Length 475;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         43 KGQDTSE 49
              |||||||
Db        336 KGQDTSE 342


RESULT 20
US-10-449-902-34759
; Sequence 34759, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
;  APPLICANT: National Institute of Agrobiological Sciences.
;  APPLICANT:  Bio-oriented Technology Research Advancement Institution.
;  APPLICANT:  The Institute of Physical and Chemical Research.
;  APPLICANT:  Foundation for Advancement of International Science.
;  TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
;  FILE REFERENCE: MOA-A0205Y1-US
;  CURRENT APPLICATION NUMBER: US/10/449,902
;  CURRENT FILING DATE:  2003-05-29
;  PRIOR APPLICATION NUMBER: JP 2002-203269
;  PRIOR FILING DATE: 2002-05-30
```

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;  PRIOR APPLICATION NUMBER: JP 2002-383870
;  PRIOR FILING DATE: 2002-12-11
;  NUMBER OF SEQ ID NOS: 56791
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34759
;   LENGTH: 60
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-10-449-902-34759

  Query Match             3.4%;  Score 6;  DB 6;  Length 60;
  Best Local Similarity   100.0%;  Pred. No. 23;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         11 SSLISL 16
              ||||||
Db         17 SSLISL 22


RESULT 21
US-10-953-349-13148
; Sequence 13148, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 13148
;   LENGTH: 67
;   TYPE: PRT
;   ORGANISM: Glycine max
US-10-953-349-13148

  Query Match             3.4%;  Score 6;  DB 6;  Length 67;
  Best Local Similarity   100.0%;  Pred. No. 25;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         58 PVPPLE 63
              ||||||
Db         32 PVPPLE 37


RESULT 22
US-10-449-902-54198
; Sequence 54198, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
;  APPLICANT: National Institute of Agrobiological Sciences.
;  APPLICANT:  Bio-oriented Technology Research Advancement Institution.
;  APPLICANT:  The Institute of Physical and Chemical Research.
;  APPLICANT:  Foundation for Advancement of International Science.
;  TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
;  FILE REFERENCE: MOA-A0205Y1-US
;  CURRENT APPLICATION NUMBER: US/10/449,902
;  CURRENT FILING DATE:  2003-05-29
;  PRIOR APPLICATION NUMBER: JP 2002-203269
;  PRIOR FILING DATE: 2002-05-30
;  PRIOR APPLICATION NUMBER: JP 2002-383870
;  PRIOR FILING DATE: 2002-12-11
;  NUMBER OF SEQ ID NOS: 56791
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54198
;   LENGTH: 86
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-10-449-902-54198

  Query Match             3.4%;  Score 6;  DB 6;  Length 86;
  Best Local Similarity   100.0%;  Pred. No. 32;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         14 ISLFLQ 19
              ||||||
Db         48 ISLFLQ 53


RESULT 23
US-10-449-902-55748
; Sequence 55748, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
;  APPLICANT: National Institute of Agrobiological Sciences.
;  APPLICANT:  Bio-oriented Technology Research Advancement Institution.
;  APPLICANT:  The Institute of Physical and Chemical Research.
;  APPLICANT:  Foundation for Advancement of International Science.
;  TITLE OF INVENTION: FULL-LENGTH PLANT cDNA AND USES THEREOF
;  FILE REFERENCE: MOA-A0205Y1-US
;  CURRENT APPLICATION NUMBER: US/10/449,902
;  CURRENT FILING DATE:  2003-05-29
;  PRIOR APPLICATION NUMBER: JP 2002-203269
;  PRIOR FILING DATE: 2002-05-30
;  PRIOR APPLICATION NUMBER: JP 2002-383870
;  PRIOR FILING DATE: 2002-12-11
;  NUMBER OF SEQ ID NOS: 56791
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55748
;   LENGTH: 86
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-10-449-902-55748

  Query Match             3.4%;  Score 6;  DB 6;  Length 86;
  Best Local Similarity   100.0%;  Pred. No. 32;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         14 ISLFLQ 19
              ||||||
Db         48 ISLFLQ 53


RESULT 24
US-10-953-349-27092
; Sequence 27092, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
;  APPLICANT: ALEXANDROV, Nickolai et al.
;  TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
;  TITLE OF INVENTION:  ENCONDED THERBY
;  FILE REFERENCE: 2750-1579PUS2
;  CURRENT APPLICATION NUMBER: US/10/953,349
;  CURRENT FILING DATE:  2004-09-30
;  NUMBER OF SEQ ID NOS: 40252
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27092
;   LENGTH: 97
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-10-953-349-27092

  Query Match             3.4%;  Score 6;  DB 6;  Length 97;
  Best Local Similarity   100.0%;  Pred. No. 36;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        136 NQTVFY 141
              ||||||
Db         32 NQTVFY 37


RESULT 25
US-11-219-121-10
; Sequence 10, Application US/11219121
```

; Publication No. US20060093601A1
; GENERAL INFORMATION:
; APPLICANT: Fong, Sherman
; APPLICANT: Dennis Mark S.
; TITLE OF INVENTION: HUMANIZED ANTI-BETA7 ANTAGONISTS AND USES THEREFOR
; FILE REFERENCE: P2159R1
; CURRENT APPLICATION NUMBER: US/11/219,121
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 60/607,377
; PRIOR FILING DATE: 2004-09-03
; NUMBER OF SEQ ID NOS: 68
; SEQ ID NO 10
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: sequence is synthesized
US-11-219-121-10

Query Match 3.4%; Score 6; DB 7; Length 108;
Best Local Similarity 100.0%; Pred. No. 39;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          73 SCRASE 78
               ||||||
Db          22 SCRASE 27
```

Search completed: July 6, 2006, 08:20:33
Job time : 23 secs

GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 08:10:36 ; Search time 38 Seconds
(without alignments)
448.168 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 177
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 1

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database : PIR_80:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	8	4.5	863	2	D88216	protein B0495.7 [i
2	7	4.0	150	2	S10913	hypothetical prote
3	7	4.0	160	2	F81864	probable acyl-CoA
4	7	4.0	160	2	G81079	acyl CoA thioester
5	7	4.0	227	2	H89793	hypothetical prote
6	7	4.0	283	1	H64088	heat shock protein
7	7	4.0	291	2	S27721	hypothetical prote
8	7	4.0	337	2	D70132	hypothetical prote
9	7	4.0	339	2	T00684	hypothetical prote
10	7	4.0	362	2	A35616	T-cell surface gly
11	7	4.0	420	2	E75596	probable O-antigen
12	7	4.0	445	2	T47813	hypothetical prote
13	7	4.0	460	2	C71884	hypothetical prote
14	7	4.0	461	1	E64630	virulence factor m
15	7	4.0	496	2	S58300	probable excision
16	7	4.0	585	2	A84919	auxin-regulated pr
17	7	4.0	648	2	T21467	hypothetical prote
18	7	4.0	706	1	C42640	kinesin-related pr
19	7	4.0	786	2	D75630	glycerophosphoryl
20	7	4.0	882	2	G83018	pyruvate dehydroge
21	7	4.0	986	2	T38205	RanBP7/importin-be
22	7	4.0	999	2	T19275	hypothetical prote
23	7	4.0	1119	2	T32074	hypothetical prote
24	7	4.0	1255	1	B44213	structural polypro
25	7	4.0	2222	2	T13924	sdk protein - frui
26	6	3.4	47	2	A40703	androgen-binding p
27	6	3.4	51	2	T42308	hypothetical prote
28	6	3.4	71	1	JQ1860	J7R protein - vari
29	6	3.4	71	2	D72171	K7R protein - vari
30	6	3.4	72	2	I49510	gene APRT protein
31	6	3.4	73	1	ASLJCE	vpu protein - capr
32	6	3.4	83	2	C69820	hypothetical prote
33	6	3.4	84	1	B44275	nonstructural prot
34	6	3.4	84	1	D46346	nonstructural prot
35	6	3.4	84	1	MNIHB3	nonstructural prot
36	6	3.4	84	2	S58183	nonstructural prot
37	6	3.4	84	2	S58187	nonstructural prot
38	6	3.4	84	2	S58185	nonstructural prot
39	6	3.4	88	1	MNIHM5	nonstructural prot
40	6	3.4	88	2	H95338	truncated response
41	6	3.4	91	2	S25462	Ig kappa chain V r
42	6	3.4	92	2	S38622	Ig kappa chain V r
43	6	3.4	95	2	S25177	Ig kappa chain V r
44	6	3.4	96	2	B49442	Ig light chain V r
45	6	3.4	97	2	AI1923	hypothetical prote
46	6	3.4	98	2	S70598	NADH2 dehydrogenas
47	6	3.4	100	2	S33338	protamine P2 - red
48	6	3.4	102	2	PH1079	Ig light chain V r
49	6	3.4	102	2	AG2112	hypothetical prote
50	6	3.4	102	2	AE2503	hypothetical prote
51	6	3.4	103	2	S67565	probable membrane
52	6	3.4	103	2	G64576	hypothetical prote
53	6	3.4	106	2	PL0262	Ig kappa chain V r
54	6	3.4	107	2	S26343	Ig kappa chain V r
55	6	3.4	107	2	S26344	Ig kappa chain V r
56	6	3.4	109	2	PH0093	Ig kappa chain V r
57	6	3.4	109	2	B71155	hypothetical prote
58	6	3.4	111	1	KVMS13	Ig kappa chain V r
59	6	3.4	111	1	KVMS37	Ig kappa chain V r
60	6	3.4	111	1	KVMS50	Ig kappa chain V r
61	6	3.4	111	1	KVMS80	Ig kappa chain V r
62	6	3.4	111	2	PL0081	Ig kappa chain V r
63	6	3.4	111	2	E53285	Ig kappa chain V a
64	6	3.4	111	2	S37202	Ig kappa chain V r
65	6	3.4	111	2	S09965	Ig kappa chain V-J
66	6	3.4	111	2	S09969	Ig kappa chain V-J
67	6	3.4	111	2	D45722	anti-glycoprotein
68	6	3.4	111	2	A33936	Ig kappa chain V r
69	6	3.4	113	2	F71053	hypothetical prote
70	6	3.4	113	2	S39716	ywdK protein - Bac
71	6	3.4	115	2	S63596	Ig kappa chain V r
72	6	3.4	115	2	H83514	conserved hypothet
73	6	3.4	117	2	I68824	T-cell receptor al
74	6	3.4	120	2	S06732	Ig kappa chain pre
75	6	3.4	120	2	S06731	Ig kappa chain pre
76	6	3.4	120	2	I54487	T-cell receptor al
77	6	3.4	122	2	G86494	hypothetical prote
78	6	3.4	122	2	A81543	hypothetical prote
79	6	3.4	122	2	D72128	hypothetical prote
80	6	3.4	123	2	PL0032	T-cell receptor de
81	6	3.4	126	2	E82794	hypothetical prote
82	6	3.4	130	1	S28734	hypothetical prote
83	6	3.4	130	2	F84164	hypothetical prote
84	6	3.4	131	1	KVMSM6	Ig kappa chain pre
85	6	3.4	132	2	T08535	transfer origin pr
86	6	3.4	132	2	S22997	traK protein - Esc
87	6	3.4	134	2	B72293	hypothetical prote
88	6	3.4	134	2	S41108	cytochrome c550 -
89	6	3.4	136	2	C85495	hypothetical prote
90	6	3.4	136	2	G64734	yacL protein - Esc
91	6	3.4	136	2	C90644	hypothetical prote
92	6	3.4	140	2	S09216	Ig heavy chain pre
93	6	3.4	140	2	H71800	hypothetical prote
94	6	3.4	141	2	F81433	probable heme-bind
95	6	3.4	142	1	A25800	gonadotropin beta
96	6	3.4	142	1	C36179	gonadotropin II be
97	6	3.4	143	2	A87678	hypothetical prote
98	6	3.4	146	2	F84005	hypothetical prote
99	6	3.4	149	2	AC2483	hypothetical prote
100	6	3.4	151	2	S37017	transposase (clone

ALIGNMENTS

RESULT 1
D88216
protein B0495.7 [imported] - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 10-May-2001
C;Accession: D88216
R;anonymous, The C. elegans Sequencing Consortium.
Science 282, 2012-2018, 1998
A;Title: Genome sequence of the nematode C. elegans: a platform for investigating biolog
A;Reference number: A75000; MUID:99069613; PMID:9851916
A;Note: see websites genome.wustl.edu/gsc/C_elegans/ and www_sanger.ac.uk/Projects/C_ele
A;Note: published errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and
A;Accession: D88216
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-863 <STO>
A;Cross-references: UNIPARC:UPI000017A59D; GB:chr_II; PID:g687822; GSPDB:GN00020; CESP:B
C;Genetics:
A;Gene: B0495.7
A;Map position: 2

Query Match 4.5%; Score 8; DB 2; Length 863;
Best Local Similarity 100.0%; Pred. No. 7.2;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 20 VVAFLAMV 27
||||||||
Db 402 VVAFLAMV 409

RESULT 2
S10913
hypothetical protein 2 (16S rRNA 5' region) - Synechococcus sp. (PCC 6301)
C;Species: Synechococcus sp.
C;Date: 30-Jun-1991 #sequence_revision 30-Jun-1991 #text_change 09-Jul-2004
C;Accession: S10913
R;Kumano, M.; Tomioka, N.; Shinozaki, K.; Sugiura, M.
Mol. Gen. Genet. 202, 173-178, 1986
A;Title: Analysis of the promoter region in the rrnA operon from a blue-green alga, Anac
A;Reference number: S07311
A;Accession: S10913
A;Status: translation not shown
A;Molecule type: DNA
A;Residues: 1-150 <KUM>
A;Cross-references: UNIPROT:P05675; UNIPARC:UPI00001393BC; EMBL:X03538; NID:g38918; PIDN
C;Superfamily: 3',5'-cyclic-nucleotide phosphodiesterase, Icc type

Query Match 4.0%; Score 7; DB 2; Length 150;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 RLGEDSS 12
|||||||
Db 39 RLGEDSS 45

RESULT 3
F81864
probable acyl-CoA hydrolase NMA1691 [imported] - Neisseria meningitidis (strain Z2491 se
C;Species: Neisseria meningitidis
C;Date: 05-May-2000 #sequence_revision 05-May-2000 #text_change 09-Jul-2004
C;Accession: F81864
R;Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; Morel
; Holroyd, S.; Jagels, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; Rajandream,
Nature 404, 502-506, 2000
A;Title: Complete DNA sequence of a serogroup A strain of Neisseria menigitidis Z2491.
A;Reference number: A81775; MUID:20222556; PMID:10761919
A;Accession: F81864
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-160 <PAR>
A;Cross-references: UNIPROT:Q9JTP2; UNIPARC:UPI00000C4C5E; GB:AL162756; GB:AL157959; NID
A;Experimental source: serogroup A, strain Z2491
C;Genetics:
A;Gene: NMA1691

Query Match 4.0%; Score 7; DB 2; Length 160;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 57 VPVPPLE 63
|||||||
Db 123 VPVPPLE 129

RESULT 4
G81079
acyl CoA thioester hydrolase family protein NMB1482 [imported] - Neisseria meningitidis
C;Species: Neisseria meningitidis
C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004
C;Accession: G81079
R;Tettelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Eisen, J.A
Hickey, E.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, B.A.;
ri, H.; Qin, H.; Vamathevan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M.
Science 287, 1809-1815, 2000
A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli, R.; Ver
A;Title: Complete genome sequence of Neisseria meningitidis serogroup B strain MC58.
A;Reference number: A81000; MUID:20175755; PMID:10710307
A;Accession: G81079
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-160 <TET>
A;Cross-references: UNIPROT:Q9JYQ0; UNIPARC:UPI00000C4708; GB:AE002497; GB:AE002098; NID
A;Experimental source: serogroup B, strain MC58
C;Genetics:
A;Gene: NMB1482

Query Match 4.0%; Score 7; DB 2; Length 160;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 57 VPVPPLE 63
|||||||
Db 123 VPVPPLE 129

RESULT 5
H89793
hypothetical protein [imported] - Staphylococcus aureus (strain N315)
C;Species: Staphylococcus aureus
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Accession: H89793
R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Oguch
ma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K.;
C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.
Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: H89793
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-227 <KUR>
A;Cross-references: UNIPROT:Q99WT2; UNIPARC:UPI00000CABDC; GB:BA000018; PID:g13700209; P
A;Experimental source: strain N315
C;Genetics:
A;Gene: SA0283

Query Match 4.0%; Score 7; DB 2; Length 227;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 SLISLFL 18
|||||||

```
Db         19 SLISLFL 25


RESULT 6
H64088
heat shock protein htpX - Haemophilus influenzae (strain Rd KW20)
C;Species: Haemophilus influenzae
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: H64088
R;Fleischmann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage, A
; Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weidman, J
, D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M.
Science 269, 496-512, 1995
A;Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter,
A;Title: Whole-genome random sequencing and assembly of Haemophilus influenzae Rd.
A;Reference number: A64000; MUID:95350630; PMID:7542800
A;Accession: H64088
A;Status: nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-283 <TIGR>
A;Cross-references: UNIPROT:P44840; UNIPARC:UPI000003174D; GB:U32755; GB:L42023; NID:g32
C;Genetics:
A;Gene: htpX
C;Superfamily: heat-shock protein htpX
C;Keywords: ATP; heat shock; metalloproteinase; P-loop; transmembrane protein; zinc
F;12-28/Domain: transmembrane #status predicted <TM1>
F;35-51/Domain: transmembrane #status predicted <TM2>
F;150-166/Domain: transmembrane #status predicted <TM3>
F;193-209/Domain: transmembrane #status predicted <TM4>
F;139,143/Binding site: zinc (His) #status predicted
F;140/Active site: Glu #status predicted

  Query Match             4.0%;  Score 7;  DB 1;  Length 283;
  Best Local Similarity   100.0%;  Pred. No. 31;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db         47 SLISLFL 53


RESULT 7
S27721
hypothetical protein 291 - Synechocystis sp. (strain PCC 6803)
C;Species: Synechocystis sp.
A;Variety: PCC 6803
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 09-Jul-2004
C;Accession: S33615; S75613; S27721
R;Malakhov, M.P.; Wada, H.; Los, D.A.; Sakamoto, T.; Murata, N.
Plant Mol. Biol. 21, 913-918, 1993
A;Title: Structure of a cyanobacterial gene encoding the 50S ribosomal protein L9.
A;Reference number: S33614; MUID:93222488; PMID:8467083
A;Accession: S33615
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-291 <MA2>
A;Cross-references: UNIPROT:P42350; UNIPARC:UPI000013A85D; GB:D10716; NID:g217098; PIDN:
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, April 1992
R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.;
o, K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda
DNA Res. 3, 109-136, 1996
A;Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis
s.
A;Reference number: S74322; MUID:97061201; PMID:8905231
A;Accession: S75613
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-291 <KAN>
A;Cross-references: UNIPARC:UPI000013A85D; EMBL:D90912; GB:AB001339; NID:g1653228; PIDN:
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996

  Query Match             4.0%;  Score 7;  DB 2;  Length 291;
  Best Local Similarity   100.0%;  Pred. No. 32;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         11 SSLISLF 17
              |||||||
Db          4 SSLISLF 10


RESULT 8
D70132
hypothetical protein BB0260 - Lyme disease spirochete
C;Species: Borrelia burgdorferi (Lyme disease spirochete)
C;Date: 13-Feb-1998 #sequence_revision 13-Feb-1998 #text_change 09-Jul-2004
C;Accession: D70132
R;Fraser, C.M.; Casjens, S.; Huang, W.M.; Sutton, G.G.; Clayton, R.; Lathigra, R.; White
son, D.; Peterson, J.; Kerlavage, A.R.; Quackenbush, J.; Salzberg, S.; Hanson, M.; Vugt,
; Bowman, C.; Garland, S.; Fujii, C.; Cotton, M.D.; Horst, K.; Roberts, K.; Hatch, B.
Nature 390, 580-586, 1997
A;Authors: Smith, H.O.; Venter, J.C.
A;Title: Genomic sequence of a Lyme disease spirochaete, Borrelia burgdorferi.
A;Reference number: A70100; MUID:98065943; PMID:9403685
A;Accession: D70132
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-337 <KLE>
A;Cross-references: UNIPROT:O51275; UNIPARC:UPI00000573ED; GB:AE001136; GB:AE000783; NID
A;Experimental source: strain B31

  Query Match             4.0%;  Score 7;  DB 2;  Length 337;
  Best Local Similarity   100.0%;  Pred. No. 36;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 SLISLFL 18
              |||||||
Db        291 SLISLFL 297


RESULT 9
T00684
hypothetical protein At2g44040 [imported] - Arabidopsis thaliana
N;Alternate names: hypothetical protein F6E13.17
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 09-Jul-2004
C;Accession: T00684; F84873
R;Rounsley, S.D.; Kaul, S.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes,
submitted to the EMBL Data Library, June 1998
A;Description: Arabidopsis thaliana chromosome II BAC F6E13 genomic sequence.
A;Reference number: Z14180
A;Accession: T00684
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-339 <ROU>
A;Cross-references: UNIPROT:O80574; UNIPARC:UPI000017AF9E; EMBL:AC004005; NID:g3212846;
A;Experimental source: cultivar Columbia
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: F84873
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-339 <STO>
A;Cross-references: UNIPARC:UPI000017AF9E; GB:AE002093; NID:g3212861; PIDN:AAC23412.1; G
C;Genetics:
A;Gene: F6E13.17; At2g44040
A;Map position: 2
A;Introns: 70/3; 150/1; 194/3; 219/3; 253/3; 290/2
C;Superfamily: dihydrodipicolinate reductase

  Query Match             4.0%;  Score 7;  DB 2;  Length 339;
  Best Local Similarity   100.0%;  Pred. No. 36;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          19 QVVAFLA 25
               |||||||
Db         194 QVVAFLA 200


RESULT 10
A35616
T-cell surface glycoprotein CD44 - hamster
C;Species: Cricetinae gen. sp. (hamster)
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 09-Jul-2004
C;Accession: A35616
R;Aruffo, A.; Stamenkovic, I.; Melnick, M.; Underhill, C.B.; Seed, B.
Cell 61, 1303-1313, 1990
A;Title: CD44 is the principal cell surface receptor for hyaluronate.
A;Reference number: A35616; MUID:90304889; PMID:1694723
A;Accession: A35616
A;Status: nucleic acid sequence not shown; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-362 <ARU>
A;Cross-references: UNIPROT:P20944; UNIPARC:UPI0000179518
C;Superfamily: human cell adhesion protein CD44
C;Keywords: cell adhesion; glycoprotein; transmembrane protein

  Query Match             4.0%;  Score 7;  DB 2;  Length 362;
  Best Local Similarity   100.0%;  Pred. No. 38;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         124 MDPRGNS 130
               |||||||
Db         228 MDPRGNS 234


RESULT 11
E75596
probable O-antigen transporter RfbX - Deinococcus radiodurans (strain R1)
C;Species: Deinococcus radiodurans
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C;Accession: E75596
R;White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.J.;
, M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, T.; Zalewski, C.; Ma
S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
Science 286, 1571-1577, 1999
A;Title: Genome sequence of the radioresistant bacterium Deinococcus radiodurans R1.
A;Reference number: A75250; MUID:20036896; PMID:10567266
A;Accession: E75596
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-420 <WHI>
A;Cross-references: UNIPROT:Q9RZB9; UNIPARC:UPI00000D3B8B; GB:AE001862; GB:AE001825; NID
A;Experimental source: strain R1
C;Genetics:
A;Gene: DRA0035
A;Map position: 2
C;Superfamily: O-antigen transporter protein

  Query Match             4.0%;  Score 7;  DB 2;  Length 420;
  Best Local Similarity   100.0%;  Pred. No. 43;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          16 LFLQVVA 22
               |||||||
Db         177 LFLQVVA 183


RESULT 12
T47813
hypothetical protein F24G16.160 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 09-Jul-2004
C;Accession: T47813
R;D'Angelo, M.; Vezzi, A.; Modesto, D.; Pigazzi, M.; Valle, G.; Mewes, H.W.; Lemcke, K.;
submitted to the Protein Sequence Database, February 2000
A;Reference number: Z24477
A;Accession: T47813
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-445 <DAN>
A;Cross-references: UNIPROT:Q9M1Y5; UNIPARC:UPI00000488A8; EMBL:AL138647
A;Experimental source: cultivar Columbia; BAC clone F24G16
C;Genetics:
A;Map position: 3
A;Introns: 5/2; 78/3; 158/1; 202/3; 227/3; 261/3; 298/2; 327/3; 378/1; 397/3
A;Note: F24G16.160
C;Superfamily: dihydrodipicolinate reductase

  Query Match             4.0%;  Score 7;  DB 2;  Length 445;
  Best Local Similarity   100.0%;  Pred. No. 45;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          19 QVVAFLA 25
               |||||||
Db         202 QVVAFLA 208


RESULT 13
C71884
hypothetical protein jhp0817 - Helicobacter pylori (strain J99)
C;Species: Helicobacter pylori
A;Variety: strain J99
C;Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
C;Accession: C71884
R;Alm, R.A.; Ling, L.S.L.; Moir, D.T.; King, B.L.; Brown, E.D.; Doig, P.C.; Smith, D.R.;
; Ives, C.; Gibson, R.; Merberg, D.; Mills, S.D.; Jiang, Q.; Taylor, D.E.; Vovis, G.F.;
Nature 397, 176-180, 1999
A;Title: Genomic sequence comparison of two unrelated isolates of the human gastric path
A;Reference number: A71800; MUID:99120557; PMID:9923682
A;Accession: C71884
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-460 <ARN>
A;Cross-references: UNIPROT:Q9ZKW7; UNIPARC:UPI000012FA8D; GB:AE001511; GB:AE001439; NID
A;Experimental source: strain J99
C;Genetics:
A;Gene: jhp0817
C;Superfamily: mviN protein

  Query Match             4.0%;  Score 7;  DB 2;  Length 460;
  Best Local Similarity   100.0%;  Pred. No. 46;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          12 SLISLFL 18
               |||||||
Db         370 SLISLFL 376


RESULT 14
E64630
virulence factor mviN protein - Helicobacter pylori (strain 26695)
C;Species: Helicobacter pylori
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: E64630
R;Tomb, J.F.; White, O.; Kerlavage, A.R.; Clayton, R.A.; Sutton, G.G.; Fleischmann, R.D.
 Peterson, S.; Loftus, B.; Richardson, D.; Dodson, R.; Khalak, H.G.; Glodek, A.; McKenne
son, J.D.; Kelley, J.M.; Cotton, M.D.; Weidman, J.M.; Fujii, C.; Bowman, C.; Watthey, L.
Nature 388, 539-547, 1997
A;Authors: Wallin, E.; Hayes, W.S.; Borodovsky, M.; Karpk, P.D.; Smith, H.O.; Fraser, C.
A;Title: The complete genome sequence of the gastric pathogen Helicobacter pylori.
A;Reference number: A64520; MUID:97394467; PMID:9252185
A;Accession: E64630
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-461 <TOM>
A;Cross-references: UNIPROT:O25551; UNIPARC:UPI000012FA8E; GB:AE000598; GB:AE000511; NID
C;Superfamily: mviN protein
```

Query Match 4.0%; Score 7; DB 1; Length 461;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 SLISLFL 18
|||||||
Db 371 SLISLFL 377

RESULT 15
S58300
probable excision repair endonuclease - fission yeast (Schizosaccharomyces pombe)
C;Species: Schizosaccharomyces pombe
C;Date: 14-Jan-1996 #sequence_revision 01-Mar-1996 #text_change 09-Jul-2004
C;Accession: T37913; T37585; S58300
R;Devlin, K.; Churcher, C.M.; Barrell, B.G.; Rajandream, M.A.; Walsh, S.V.
submitted to the EMBL Data Library, August 1995
A;Reference number: Z21753
A;Accession: T37913
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-496 <DE2>
A;Cross-references: UNIPROT:Q09708; UNIPARC:UPI000013A0A7; EMBL:Z50728; NID:g929886; PID
A;Experimental source: strain 972h-; cosmid c18B11
R;Devlin, K.; Odell, C.; Churcher, C.M.; Barrell, B.G.; Rajandream, M.A.; Walsh, S.V.
submitted to the EMBL Data Library, November 1995
A;Reference number: Z21727
A;Accession: T37585
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 421-496 <DEV>
A;Cross-references: UNIPARC:UPI0000168FFB; EMBL:Z66568; PIDN:CAB55872.1; GSPDB:GN00066;
C;Genetics:
A;Gene: SPAC18B11.01c
A;Map position: 1L

Query Match 4.0%; Score 7; DB 2; Length 496;
Best Local Similarity 100.0%; Pred. No. 49;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 157 LERRLYR 163
|||||||
Db 266 LERRLYR 272

RESULT 16
A84919
auxin-regulated protein GH3 homolog At2g47750 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
C;Accession: A84919
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: A84919
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-585 <STO>
A;Cross-references: UNIPROT:O82243; UNIPARC:UPI00000AC341; GB:AE002093; NID:g3738288; PI
C;Genetics:
A;Gene: At2g47750
A;Map position: 2
C;Superfamily: soybean auxin-regulated protein GH3

Query Match 4.0%; Score 7; DB 2; Length 585;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 GEDSSLI 14
|||||||
Db 78 GEDSSLI 84

RESULT 17
T21467
hypothetical protein F28B1.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T21467
R;Matthews, L.
submitted to the EMBL Data Library, November 1996
A;Reference number: Z19426
A;Accession: T21467
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-648 <WIL>
A;Cross-references: UNIPROT:O45416; UNIPARC:UPI000007757B; EMBL:Z81517; PIDN:CAB04213.1;
A;Experimental source: clone F28B1
C;Genetics:
A;Gene: CESP:F28B1.6
A;Map position: 5
A;Introns: 116/3; 258/2; 394/3; 609/3

Query Match 4.0%; Score 7; DB 2; Length 648;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 13 LISLFLQ 19
|||||||
Db 303 LISLFLQ 309

RESULT 18
C42640
kinesin-related protein KIP2 - yeast (Saccharomyces cerevisiae)
N;Alternate names: protein P2581; protein YPL155c
C;Species: Saccharomyces cerevisiae
C;Date: 03-Mar-1994 #sequence_revision 03-Mar-1994 #text_change 09-Jul-2004
C;Accession: C42640; S65166; S69444; S28232; S28234
R;Roof, D.M.; Meluh, P.B.; Rose, M.D.
J. Cell Biol. 118, 95-108, 1992
A;Title: Kinesin-related proteins required for assembly of the mitotic spindle.
A;Reference number: A42640; MUID:92317166; PMID:1618910
A;Accession: C42640
A;Molecule type: DNA
A;Residues: 1-706 <ROO>
A;Cross-references: UNIPROT:P28743; UNIPARC:UPI000012DE72; EMBL:Z11963; NID:g3852; PIDN:
A;Note: sequence extracted from NCBI backbone (NCBIN:107719, NCBIP:107722)
R;Purnelle, B.; Coster, F.; Goffeau, A.
submitted to the Protein Sequence Database, May 1996
A;Reference number: S65154
A;Accession: S65166
A;Molecule type: DNA
A;Residues: 1-706 <PUR>
A;Cross-references: UNIPARC:UPI000012DE72; EMBL:Z73511; NID:g1370329; PIDN:CAA97860.1; P
A;Experimental source: strain S288C (AB972)
R;Purnelle, B.; Comblez, S.; Coster, F.; Naveau, F.; Goffeau, A.
submitted to the EMBL Data Library, March 1996
A;Description: The sequence of 55 kb on the left arm of yeast chromosome XVI identifies
ogue to the human phosphotyrosyl phosphatase activator PTPA and a homologue to the plant
A;Reference number: S69428
A;Accession: S69444
A;Molecule type: DNA
A;Residues: 1-706 <PUW>
A;Cross-references: UNIPARC:UPI000012DE72; EMBL:X96770; NID:g1403537; PIDN:CAA65566.1; P
C;Genetics:
A;Gene: SGD:KIP2; MIPS:YPL155c
A;Cross-references: SGD:S0006076; MIPS:YPL155c
A;Map position: 16L
C;Superfamily: kinesin-related protein KIF2; kinesin motor domain homology
C;Keywords: ATP; coiled coil; microtubule binding; nucleotide binding; P-loop
F;159-499/Domain: kinesin motor domain homology #status atypical <KMOT>
F;202-209/Region: nucleotide-binding motif A (P-loop)

F;208/Binding site: ATP (Lys) #status predicted

Query Match 4.0%; Score 7; DB 1; Length 706;
Best Local Similarity 100.0%; Pred. No. 65;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 48 SEELLRW 54
|||||||
Db 316 SEELLRW 322

RESULT 19
D75630
glycerophosphoryl diester phosphodiesterase - Deinococcus radiodurans (strain R1)
C;Species: Deinococcus radiodurans
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C;Accession: D75630
R;White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.J.;
, M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, T.; Zalewski, C.; Ma
S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
Science 286, 1571-1577, 1999
A;Title: Genome sequence of the radioresistant bacterium Deinococcus radiodurans R1.
A;Reference number: A75250; MUID:20036896; PMID:10567266
A;Accession: D75630
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-786 <WHI>
A;Cross-references: UNIPROT:Q9RZL4; UNIPARC:UPI00000D3B5D; GB:AE001826; NID:g6460827; PI
A;Experimental source: strain R1
C;Genetics:
A;Gene: DRB0111
A;Map position: megaplasmid
A;Genome: plasmid
A;Note: plasmid MP1

Query Match 4.0%; Score 7; DB 2; Length 786;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 RLYRVSL 166
|||||||
Db 139 RLYRVSL 145

RESULT 20
G83018
pyruvate dehydrogenase PA5015 [imported] - Pseudomonas aeruginosa (strain PAO1)
C;Species: Pseudomonas aeruginosa
C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 31-Dec-2004
C;Accession: G83018
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Br
adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim,
.; Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic patho
A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Accession: G83018
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-882 <STO>
A;Cross-references: UNIPROT:Q59637; UNIPARC:UPI0000130BF0; GB:AE004914; GB:AE004091; NID
A;Experimental source: strain PAO1
C;Genetics:
A;Gene: aceE; PA5015
C;Superfamily: Pyruvate dehydrogenase, E1 component; thiamin pyrophosphate-binding domai

Query Match 4.0%; Score 7; DB 2; Length 882;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 57 VPVPPLE 63
|||||||
Db 466 VPVPPLE 472

RESULT 21
T38205
RanBP7/importin-beta/Cse1p homolog - fission yeast (Schizosaccharomyces pombe)
C;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C;Accession: T38205
R;Grishchuk, K.; McIntosh, J.R.; Devlin, K.; Churcher, C.; Barrell, B.G.; Rajandream, M.
submitted to the EMBL Data Library, February 1996
A;Reference number: Z21778
A;Accession: T38205
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-986 <DEV>
A;Cross-references: UNIPROT:Q10297; UNIPARC:UPI000013A83E; EMBL:Z69730; PIDN:CAA93604.1;
A;Experimental source: strain 972h-; cosmid c22H10
C;Genetics:
A;Gene: SPDB:SPAC22H10.03c
A;Map position: 1
A;Introns: 36/1; 776/3; 833/2; 873/1; 930/1; 947/3

Query Match 4.0%; Score 7; DB 2; Length 986;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 56 TVPVPPL 62
|||||||
Db 347 TVPVPPL 353

RESULT 22
T19275
hypothetical protein F34D10.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T19275; T21723
R;Harris, B.
submitted to the EMBL Data Library, September 1994
A;Reference number: Z19099
A;Accession: T19275
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-999 <WIL>
A;Cross-references: UNIPROT:Q17969; UNIPARC:UPI0000079A41; EMBL:Z37139; PIDN:CAA85494.1;
A;Experimental source: clone C14B1
R;Kershaw, J.
submitted to the EMBL Data Library, June 1994
A;Reference number: Z19464
A;Accession: T21723
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-999 <WI2>
A;Cross-references: UNIPARC:UPI0000079A41; EMBL:Z34799; PIDN:CAA84320.1; GSPDB:GN00021; (
A;Experimental source: clone F34D10
C;Genetics:
A;Gene: CESP:F34D10.2
A;Map position: 3
A;Introns: 20/3; 40/3; 72/1; 234/3; 387/3; 457/1; 523/2; 541/3; 682/1; 784/2; 822/2; 870/

Query Match 4.0%; Score 7; DB 2; Length 999;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 SLISLFL 18
|||||||
Db 764 SLISLFL 770

RESULT 23
T32074
hypothetical protein F22E5.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans

C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T32074; T25965
R;Graves, T.; Wohldmann, P.; Clarke, K.
submitted to the EMBL Data Library, July 1997
A;Description: The sequence of C. elegans cosmid F22E5.
A;Reference number: Z21119
A;Accession: T32074
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1119 <GRA>
A;Cross-references: UNIPROT:O16715; UNIPARC:UPI0000082122; EMBL:AF016681; PIDN:AAB66169.
A;Experimental source: strain Bristol N2; clone F22E5
R;Wu, X.; Kramer, J.
submitted to the EMBL Data Library, December 1996
A;Description: The sequence of C. elegans cosmid ZC239.
A;Reference number: Z20117
A;Accession: T25965
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 'M',63-78,'L',80-133,'A',135-140,'A',142-171,'E',173-199,'I',201-279,'H',281
A;Cross-references: UNIPARC:UPI0000176112; EMBL:U80842; PIDN:AAB37946.1; GSPDB:GN00020;
A;Experimental source: strain Bristol N2; clone ZC239
C;Genetics:
A;Gene: CESP:F22E5.3; CESP:ZC239.7
A;Map position: 2
A;Introns: 52/1; 113/3; 149/1; 183/1; 238/3; 401/2; 448/3; 710/1; 772/2; 819/2; 860/3; 9
C;Superfamily: membrane-bound guanylate cyclase; guanylate cyclase catalytic domain homc

  Query Match 4.0%; Score 7; DB 2; Length 1119;
  Best Local Similarity 100.0%; Pred. No. 94;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 50 ELLRWST 56
|||||||
Db 663 ELLRWST 669

RESULT 24
B44213
structural polyprotein - Venezuelan equine encephalitis virus (strain P676)
N;Contains: 6K protein; coat protein; membrane glycoprotein E1; membrane glycoprotein E2
C;Species: Venezuelan equine encephalitis virus
C;Date: 17-Feb-1994 #sequence_revision 17-Feb-1994 #text_change 31-Dec-2004
C;Accession: B44213
R;Kinney, R.M.; Tsuchiya, K.R.; Sneider, J.M.; Trent, D.W.
Virology 191, 569-580, 1992
A;Title: Genetic evidence that epizootic Venezuelan equine encephalitis (VEE) viruses ma
A;Reference number: A44213; MUID:93079859; PMID:1448915
A;Accession: B44213
A;Molecule type: genomic RNA
A;Residues: 1-1255 <KIN>
A;Cross-references: UNIPROT:P36332; UNIPARC:UPI0000131EB2; GB:L04653; NID:g290609; PIDN:
C;Superfamily: pestivirus genome polyprotein
C;Keywords: coat protein; glycoprotein; polyprotein; transmembrane protein
F;1-275/Product: coat protein #status predicted <CTP>
F;276-334/Product: membrane glycoprotein E3 #status predicted <MG3>
F;335-757/Product: membrane glycoprotein E2 #status predicted <MG2>
F;702-722/Domain: transmembrane #status predicted <TM1>
F;758-813/Product: 6K protein #status predicted <KP6>
F;795-814/Domain: transmembrane #status predicted <TM2>
F;814-1255/Product: membrane glycoprotein E1 #status predicted <MG1>
F;1232-1249/Domain: transmembrane #status predicted <TM3>
F;47,286,652,947/Binding site: carbohydrate (Asn) (covalent) #status predicted

  Query Match 4.0%; Score 7; DB 1; Length 1255;
  Best Local Similarity 100.0%; Pred. No. 1e+02;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 DSSLISL 16
|||||||
Db 509 DSSLISL 515

RESULT 25
T13924
sdk protein - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T13924
R;Nguyen, D.N.; Liu, Y.; Litsky, M.L.; Reinke, R.
submitted to the EMBL Data Library, February 1997
A;Description: Sidekick, a member of the immunoglobulin superfamily, is required for pat
A;Reference number: Z17809
A;Accession: T13924
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-2222 <NGU>
A;Cross-references: UNIPROT:O97394; UNIPARC:UPI00000071AF; EMBL:U88578; NID:g4099554; PI
C;Genetics:
A;Gene: sdk
A;Cross-references: FlyBase:FBgn0021764

  Query Match 4.0%; Score 7; DB 2; Length 2222;
  Best Local Similarity 100.0%; Pred. No. 1.6e+02;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 77 SEDGPLN 83
|||||||
Db 197 SEDGPLN 203

Search completed: July 6, 2006, 08:16:09
Job time : 41 secs

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GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 07:53:02 ; Search time 195 Seconds
(without alignments)
415.012 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 985
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2589679 seqs, 457216429 residues

Total number of hits satisfying chosen parameters: 2589679

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : A_Geneseq_8:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*
9: geneseqp2005s:*
10: geneseqp2006s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	985	100.0	177	4	AAB47299	Aab47299 PRO10272
2	985	100.0	177	4	AAB87603	Aab87603 Human PRO
3	985	100.0	177	4	AAU04952	Aau04952 Human Int
4	985	100.0	177	5	ABG95928	Abg95928 Human sec
5	985	100.0	177	6	ABU90953	Abu90953 Novel hum
6	985	100.0	177	6	ABO34012	Abo34012 Human sec
7	985	100.0	177	6	ABU72029	Abu72029 Novel hum
8	985	100.0	177	6	ABU71583	Abu71583 Human sec
9	985	100.0	177	6	ABU72364	Abu72364 Human PRO
10	985	100.0	177	6	ABU91037	Abu91037 Human PRO
11	985	100.0	177	6	ABO27358	Abo27358 Human sec
12	985	100.0	177	6	ABU92553	Abu92553 Human sec
13	985	100.0	177	6	ABU89699	Abu89699 Human int
14	985	100.0	177	6	ABU81223	Abu81223 Human sec
15	985	100.0	177	6	ABO53337	Abo53337 Novel hum
16	985	100.0	177	6	ABU98340	Abu98340 Novel hum
17	985	100.0	177	6	ABU89345	Abu89345 Novel hum
18	985	100.0	177	6	ABU82552	Abu82552 Novel hum
19	985	100.0	177	6	ABU72594	Abu72594 Human IL-
20	985	100.0	177	6	ABU96516	Abu96516 Human PRO
21	985	100.0	177	6	ABU72186	Abu72186 Human PRO
22	985	100.0	177	6	ADA26944	Ada26944 Human PRO
23	985	100.0	177	6	ADB17213	Adb17213 Human tra
24	985	100.0	177	6	ADA43229	Ada43229 Human int
25	985	100.0	177	6	ABO44316	Abo44316 Human sec
26	985	100.0	177	6	ADA20018	Ada20018 Novel hum
27	985	100.0	177	6	ADB17401	Adb17401 Human tra
28	985	100.0	177	6	ADA20190	Ada20190 Novel hum
29	985	100.0	177	6	ABO34244	Abo34244 Human sec
30	985	100.0	177	6	ADA00487	Ada00487 Human sec
31	985	100.0	177	7	ADA49770	Ada49770 Human int
32	985	100.0	177	7	ABU63084	Abu63084 Novel hum
33	985	100.0	177	7	ADA26963	Ada26963 Human PRO
34	985	100.0	177	7	ADB85729	Adb85729 Novel hum
35	985	100.0	177	7	ADB68408	Adb68408 Human PRO
36	985	100.0	177	7	ADB68215	Adb68215 Human PRO
37	985	100.0	177	7	ADB91032	Adb91032 Novel hum
38	985	100.0	177	7	ADB66897	Adb66897 Human PRO
39	985	100.0	177	7	ADC07112	Adc07112 Human PRO
40	985	100.0	177	7	ADC17291	Adc17291 Mammalian
41	985	100.0	177	7	ADC14989	Adc14989 Novel hum
42	985	100.0	177	7	ADC52484	Adc52484 Novel hum
43	985	100.0	177	7	ADD36160	Add36160 Novel hum
44	985	100.0	177	7	ADE86211	Ade86211 Human PRO
45	985	100.0	177	7	ABW02055	Abw02055 Human IL-
46	985	100.0	177	7	ADG01161	Adg01161 Novel hum
47	985	100.0	177	7	ADG08714	Adg08714 Novel hum
48	985	100.0	177	7	ADF95335	Adf95335 Novel hum
49	985	100.0	177	7	ADH24188	Adh24188 Novel hum
50	985	100.0	177	7	ADG87381	Adg87381 Human PRO
51	985	100.0	177	7	ADH34214	Adh34214 Novel hum
52	985	100.0	177	7	ADH30047	Adh30047 Novel hum
53	985	100.0	177	7	ADH24018	Adh24018 Novel hum
54	985	100.0	177	7	ADG85422	Adg85422 Novel hum
55	985	100.0	177	7	ADH24698	Adh24698 Novel hum
56	985	100.0	177	7	ADH37554	Adh37554 Human sec
57	985	100.0	177	7	ADH02143	Adh02143 Human PRO
58	985	100.0	177	7	ADG87369	Adg87369 Human PRO
59	985	100.0	177	7	ADH37724	Adh37724 Human sec
60	985	100.0	177	7	ADG85762	Adg85762 Novel hum
61	985	100.0	177	7	ADH24358	Adh24358 Novel hum
62	985	100.0	177	7	ADH38652	Adh38652 Novel hum
63	985	100.0	177	7	ADG88791	Adg88791 Human PRO
64	985	100.0	177	7	ADG83773	Adg83773 Human PRO
65	985	100.0	177	7	ADH29581	Adh29581 Novel hum
66	985	100.0	177	7	ADH27697	Adh27697 Novel hum
67	985	100.0	177	7	ADH37894	Adh37894 Human sec
68	985	100.0	177	7	ADH38071	Adh38071 Human sec
69	985	100.0	177	7	ADH57491	Adh57491 Novel hum
70	985	100.0	177	7	ADH53633	Adh53633 Novel hum
71	985	100.0	177	7	ADH53803	Adh53803 Novel hum
72	985	100.0	177	7	ADH52139	Adh52139 Novel hum
73	985	100.0	177	7	ADH49994	Adh49994 Novel hum
74	985	100.0	177	7	ADI25504	Adi25504 Novel hum
75	985	100.0	177	7	ADH90297	Adh90297 Novel hum
76	985	100.0	177	7	ADI25674	Adi25674 Novel hum
77	985	100.0	177	7	ADH97848	Adh97848 Novel hum
78	985	100.0	177	7	ADI03696	Adi03696 Novel hum
79	985	100.0	177	7	ADI12053	Adi12053 Human PRO
80	985	100.0	177	7	ADH90127	Adh90127 Novel hum
81	985	100.0	177	7	ADH98528	Adh98528 Novel hum
82	985	100.0	177	7	ADI11203	Adi11203 Human PRO
83	985	100.0	177	7	ADI11713	Adi11713 Human PRO
84	985	100.0	177	7	ADH98358	Adh98358 Novel hum
85	985	100.0	177	7	ADH98698	Adh98698 Novel hum
86	985	100.0	177	7	ADH98188	Adh98188 Novel hum
87	985	100.0	177	7	ADI05176	Adi05176 Novel hum
88	985	100.0	177	7	ADI03526	Adi03526 Novel hum
89	985	100.0	177	7	ADI04921	Adi04921 Novel hum
90	985	100.0	177	7	ADH78375	Adh78375 Human PRO
91	985	100.0	177	7	ADI19719	Adi19719 Novel hum
92	985	100.0	177	7	ADH90467	Adh90467 Novel hum
93	985	100.0	177	7	ADI03186	Adi03186 Novel hum
94	985	100.0	177	7	ADH78035	Adh78035 Human PRO
95	985	100.0	177	7	ADH98018	Adh98018 Novel hum
96	985	100.0	177	7	ADI01403	Adi01403 Novel hum

97	985	100.0	177	7	ADI02098	Adi02098 Novel hum
98	985	100.0	177	7	ADI03356	Adi03356 Novel hum
99	985	100.0	177	7	ADI11543	Adi11543 Human PRO
100	985	100.0	177	7	ADI02445	Adi02445 Novel hum

ALIGNMENTS

RESULT 1
AAB47299
ID AAB47299 standard; protein; 177 AA.
XX
AC AAB47299;
XX
DT 22-AUG-2001 (first entry)
XX
DE PRO10272 polypeptide.
XX
KW PRO; PRO1081; PRO1274; PRO10272; proliferation; T-lymphocyte; PRO1199;
KW PRO1556; PRO4401; PRO10268; inhibition; stimulation; infiltration;
KW mononuclear cell; eosinophil; erythema multiforme;
KW polymorphonuclear neutrophil; PMN; antibody; immune-related disorder;
KW systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;
KW juvenile chronic arthritis; spondyloarthropathy; systemic sclerosis;
KW idiopathic inflammatory myopathy; Sjogren's syndrome; skin disease;
KW systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia; asthma;
KW autoimmune thrombocytopaenia; thyroiditis; diabetes mellitus; allergy;
KW immune-mediated renal disease; demyelination; central nervous system;
KW peripheral nervous system; idiopathic demyelinating polyneuropathy;
KW Guillain-Barre syndrome; hepatobiliary disease; eosinophilic pneumonia;
KW chronic active hepatitis; primary biliary cirrhosis; allergic rhinitis;
KW granulomatous hepatitis; sclerosing cholangitis; food hypersensitivity;
KW inflammatory bowel disease; gluten-sensitive enteropathy; urticaria;
KW Whipple's disease; idiopathic pulmonary fibrosis; contact dermatitis;
KW psoriasis; atopic dermatitis; hypersensitivity pneumonitis;
KW graft rejection; graft-versus-host disease.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1. .32
FT /label= Signal peptide
FT Protein 33. .177
FT /label= Mature PRO10272
FT Modified-site 44. .50
FT /label= N-myristoylation site
FT Modified-site 127. .135
FT /label= Tyrosine kinase phosphorylation site
FT Modified-site 136. .140
FT /label= N-glycosylation site
FT Modified-site 150. .156
FT /label= N-myristoylation site
XX
PN WO200140465-A2.
XX
PD 07-JUN-2001.
XX
PF 10-NOV-2000; 2000WO-US030873.
XX
PR 30-NOV-1999; 99WO-US028313.
PR 09-DEC-1999; 99US-0170262P.
PR 23-DEC-1999; 99US-0172059P.
PR 11-JAN-2000; 2000US-0175481P.
PR 20-JAN-2000; 2000US-0177118P.
PR 18-FEB-2000; 2000WO-US004342.
PR 03-MAR-2000; 2000US-0187202P.
PR 30-MAY-2000; 2000WO-US014941.
PR 05-JUN-2000; 2000US-0209832P.
PR 24-AUG-2000; 2000WO-US023328.
XX
PA (GETH) GENENTECH INC.
XX
PI Fong S, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
PI Hillan KJ, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2001-381384/40.
DR N-PSDB; AAC85969.
XX
PT Isolated PRO polypeptide useful for treat or diagnose an immune-related
PT disorder e.g. arthritis, asthma, allergy, diabetes or psoriasis.
XX
PS Claim 1; Fig 18; 124pp; English.
XX
CC The sequences given in AAB47291-99 show PRO polypeptides. PRO1081,
CC PRO1274 and PRO10272 stimulate the proliferation of T-lymphocytes and
CC PRO1199, PRO1556, PRO4401 and PRO10268 inhibit the proliferation of T-
CC lymphocytes. PRO1754 and PRO9912 act to enhance the infiltration of
CC mononuclear cells, eosinophils or polymorphonuclear neutrophils (PMN)
CC into the tissue of a mammal. The PRO cDNA's and antibodies which bind to
CC them, are used to treat an immune-related disorder in a mammal. Such
CC disorders include systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, a spondyloarthropathy,
CC systemic sclerosis, an idiopathic inflammatory myopathy, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, a demyelinating disease of the central or
CC peripheral nervous system, idiopathic demyelinating polyneuropathy,
CC Guillain-Barre syndrome, a chronic inflammatory demyelinating
CC polyneuropathy, a hepatobiliary disease, infectious or autoimmune chronic
CC active hepatitis, primary biliary cirrhosis, granulomatous hepatitis,
CC sclerosing cholangitis, inflammatory bowel disease, gluten-sensitive
CC enteropathy, Whipple's disease, an autoimmune or immune-mediated skin
CC disease, a bullous skin disease, erythema multiforme, contact dermatitis,
CC psoriasis, an allergic disease, asthma, allergic rhinitis, atopic
CC dermatitis, food hypersensitivity, urticaria, an immunologic disease of
CC the lung, eosinophilic pneumonia, idiopathic pulmonary fibrosis,
CC hypersensitivity pneumonitis, a transplantation associated disease, graft
CC rejection or graft-versus-host disease
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 2
AAB87603
ID AAB87603 standard; protein; 177 AA.
XX
AC AAB87603;
XX
DT 15-MAY-2001 (first entry)
XX
DE Human PRO10272.
XX
KW Human; PRO protein; mapping.
XX
OS Homo sapiens.
XX
PN WO200116318-A2.
XX
PD 08-MAR-2001.

XX
PF 24-AUG-2000; 2000WO-US023328.
XX
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 07-DEC-1999; 99US-0169495P.
PR 09-DEC-1999; 99US-0170262P.
PR 11-JAN-2000; 2000US-0175481P.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 01-MAR-2000; 2000WO-US005601.
PR 03-MAR-2000; 2000US-0187202P.
PR 21-MAR-2000; 2000US-0191007P.
PR 30-MAR-2000; 2000WO-US008439.
PR 25-APR-2000; 2000US-0199397P.
PR 22-MAY-2000; 2000WO-US014042.
PR 05-JUN-2000; 2000US-0209832P.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2001-183260/18.
DR N-PSDB; AAF92135.
XX
PT Eighty four nucleic acids encoding PRO polypeptides, useful in molecular
PT biology, including use as hybridization probes, and in chromosome and
PT gene mapping.
XX
PS Claim 12; Fig 156; 278pp; English.
XX
CC The present sequence is a human PRO polypeptide (secreted and
CC transmembrane). The PRO protein, and PRO agonists, PRO antagonists or
CC anti-PRO antibodies are useful for preparation of a medicament useful in
CC the treatment of a condition which is responsive to the PRO protein,
CC agonists, antagonists or anti-PRO antibodies. The PRO protein may also be
CC employed as molecular weight markers for protein electrophoresis. The PRO
CC coding sequence has applications in molecular biology, including use as
CC hybridisation probes, and in chromosome and gene mapping
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 3
AAU04952
ID AAU04952 standard; protein; 177 AA.
XX
AC AAU04952;
XX
DT 24-OCT-2001 (first entry)
XX
DE Human Interleukin 17E ligand, IL-17E.
XX
KW Human; Interleukin-17E ligand; IL-17E; agonist; antagonist; PRO10272;
KW DNA 147531-2821; systemic lupus erythematosus; rheumatoid arthritis;
KW osteoarthritis; diabetes mellitus; allergic disease; asthma;
KW demyelinating disease; degenerative cartilaginous disorder;
KW transplantation associated disease.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1. .32
FT /label= Signal_peptide
FT Protein 33. .177
FT /label= Mature_IL_17E
FT Region 44. .50
FT /note= "N-myristoylation site"
FT Region 127. .135
FT /note= "Tyrosine kinase phosphorylation site"
FT Modified-site 136. .140
FT /note= "Asn is glycosylated"
FT Region 150. .156
FT /note= "N-myristoylation site"
XX
PN WO200146420-A2.
XX
PD 28-JUN-2001.
XX
PF 20-DEC-2000; 2000WO-US034956.
XX
PR 23-DEC-1999; 99US-0172096P.
PR 30-DEC-1999; 99WO-US031274.
PR 11-JAN-2000; 2000US-0175481P.
PR 18-FEB-2000; 2000WO-US004341.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000US-0191007P.
PR 21-MAR-2000; 2000WO-US007532.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-JUN-2000; 2000US-0213807P.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 24-OCT-2000; 2000US-0242837P.
PR 10-NOV-2000; 2000WO-US030873.
PR 28-NOV-2000; 2000US-0253646P.
PR 01-DEC-2000; 2000WO-US032678.
XX
PA (GETH) GENENTECH INC.
XX
PI Chen J, Filvaroff E, Fong S, Goddard A, Godowski PJ, Grimaldi CJ;
PI Gurney AL, Li H, Hillan KJ, Tumas D, Van Lookeren M, Vandlen RL;
PI Watanabe CK, Williams PM, Wood WI, Yansura DG;
XX
DR WPI; 2001-451708/48.
DR N-PSDB; AAS09511.
XX
PT Novel PRO polypeptides homologous to interleukin-17, useful for the
PT diagnosis and treatment of immune related disease e.g. rheumatoid
PT arthritis and diabetes.
XX
PS Claim 10; Fig 6; 188pp; English.
XX
CC The sequence is PRO10272 which is the human Interleukin 17E ligand, IL-
CC 17E, encoded by DNA 147531-2821. A composition containing ant/agonists to
CC the PRO polypeptides or individual components are useful for treating a
CC mammal with an immune related disease, e.g. systemic lupus erythematosus,
CC rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a
CC spondyloarthropathy, systemic sclerosis, an idiopathic inflammatory
CC myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis,
CC autoimmune haemolytic anaemia, autoimmune thrombocytopaenia, thyroiditis,
CC diabetes mellitus, immune-mediated renal disease, a demyelinating
CC disease, an autoimmune or immune-mediated skin disease, contact
CC dermatitis, an allergic disease e.g. food hypersensitivity, asthma, a
CC transplantation associated disease, or a chronic inflammatory
CC demyelinating polyneuropathy. Treating a degenerative cartilaginous
CC disorder comprises administering a PRO1031 or PRO1122 polypeptide
CC agonist, or antagonist to the mammal. Numerous examples of the diseases
CC and disorders are given in the specification

```
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-93;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 4
ABG95928
ID   ABG95928 standard; protein; 177 AA.
XX
AC   ABG95928;
XX
DT   10-DEC-2002  (first entry)
XX
DE   Human secreted/transmembrane protein PRO10272.
XX
KW   Human; secreted protein; transmembrane protein; antirheumatic;
KW   antiarthritic; osteopathic; sports-related joint problem;
KW   articular cartilage defect; osteoarthritis; rheumatoid arthritis.
XX
OS   Homo sapiens.
XX
PN   US2002119130-A1.
XX
PD   29-AUG-2002.
XX
PF   06-DEC-2001; 2001US-00006867.
XX
PR   29-OCT-1997;   97US-0063435P.
PR   29-OCT-1997;   97US-0064215P.
PR   22-APR-1998;   98US-0082797P.
PR   29-APR-1998;   98US-0083495P.
PR   15-MAY-1998;   98US-0085579P.
PR   02-JUN-1998;   98US-0087759P.
PR   04-JUN-1998;   98US-0088021P.
PR   04-JUN-1998;   98US-0088029P.
PR   04-JUN-1998;   98US-0088030P.
PR   10-JUN-1998;   98US-0088734P.
PR   10-JUN-1998;   98US-0088740P.
PR   10-JUN-1998;   98US-0088811P.
PR   10-JUN-1998;   98US-0088824P.
PR   10-JUN-1998;   98US-0088825P.
PR   11-JUN-1998;   98US-0088863P.
PR   12-JUN-1998;   98US-0089105P.
PR   16-JUN-1998;   98US-0089514P.
PR   17-JUN-1998;   98US-0089653P.
PR   19-JUN-1998;   98US-0089952P.
PR   22-JUN-1998;   98US-0090246P.
PR   24-JUN-1998;   98US-0090444P.
PR   25-JUN-1998;   98US-0090688P.
PR   25-JUN-1998;   98US-0090696P.
PR   26-JUN-1998;   98US-0090862P.
PR   02-JUL-1998;   98US-0091628P.
PR   10-AUG-1998;   98US-0096012P.
PR   17-AUG-1998;   98US-0096757P.
PR   18-AUG-1998;   98US-0096949P.
PR   18-AUG-1998;   98US-0096959P.
PR   26-AUG-1998;   98US-0097954P.
PR   26-AUG-1998;   98US-0097971P.
PR   26-AUG-1998;   98US-0097979P.
PR   01-SEP-1998;   98US-0098749P.
PR   10-SEP-1998;   98US-0099741P.
PR   10-SEP-1998;   98US-0099763P.
PR   10-SEP-1998;   98US-0099792P.
PR   10-SEP-1998;   98US-0099812P.
PR   10-SEP-1998;   98US-0099815P.
PR   16-SEP-1998;   98US-0100627P.
PR   16-SEP-1998;   98US-0100662P.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98US-0100683P.
PR   17-SEP-1998;   98US-0100684P.
PR   17-SEP-1998;   98US-0100930P.
PR   22-SEP-1998;   98US-0101279P.
PR   23-SEP-1998;   98US-0101475P.
PR   24-SEP-1998;   98US-0101738P.
PR   24-SEP-1998;   98US-0101743P.
PR   24-SEP-1998;   98US-0101916P.
PR   30-SEP-1998;   98US-0102570P.
PR   06-OCT-1998;   98US-0103449P.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99WO-US010733.
PR   02-JUN-1999;   99WO-US012252.
PR   01-SEP-1999;   99WO-US020111.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021194.
PR   22-DEC-1999;   99WO-US030720.
PR   18-FEB-2000; 2000WO-US004341.
PR   18-FEB-2000; 2000WO-US004342.
PR   22-FEB-2000; 2000WO-US004414.
PR   01-MAR-2000; 2000WO-US005601.
PR   30-MAR-2000; 2000WO-US008439.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   23-AUG-2000; 2000WO-US023522.
PR   24-AUG-2000; 2000WO-US023328.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032378.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   01-MAR-2001; 2001WO-US006666.
PR   30-MAY-2001; 2001WO-US017443.
PR   01-JUN-2001; 2001WO-US017800.
PR   20-JUN-2001; 2001WO-US019692.
PR   29-JUN-2001; 2001WO-US021066.
PR   09-JUL-2001; 2001WO-US021735.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2002-731348/79.
DR   N-PSDB; ABS74455.
XX
PT   New isolated secreted and transmembrane PRO polypeptide useful for
PT   modulating biological activity of a cell, or for treating sports-related
PT   joint problems, osteoarthritis or rheumatoid arthritis.
XX
PS   Claim 20; Fig 156; 399pp; English.
XX
CC   The invention relates to an isolated secreted and transmembrane PRO
CC   polypeptide having 80 % sequence identity to a sequence appearing as
CC   ABG95851-ABG95934 or their associated signal peptide, or a sequence of an
CC   extracellular domain of the proteins with their associated signal peptide
CC   or lacking its associated signal peptide. Also included are the nucleic
CC   acids encoding the proteins, vectors, host cells, fusion proteins and
CC   antibodies which specifically bind to the proteins. The proteins are
CC   useful for detecting a polypeptide designated as A, B, C or D in a sample
CC   suspected of containing an A, B, C or D polypeptide, by contacting the
CC   sample with a polypeptide designated as E, F, G, H or I (or vice versa)
CC   and determining the formation of a A/E, B/F, B/G, C/H or D/I polypeptide
CC   conjugate in the sample, where the formation of the conjugate is
```

CC indicative of the presence of an A, B, C or D polypeptide in the sample, where A is a PRO10272 polypeptide, B is a PRO20110 polypeptide, C is a PRO10096 polypeptide, D is a PRO19760 polypeptide, E is a PRO5801 polypeptide, F is a PRO1 polypeptide, G is a PRO20040 polypeptide, H is a PRO20233 polypeptide and I is a PRO1890 polypeptide. The sample comprises a cell suspected of expressing the A, B, C or D polypeptide. The E, F, G, H or I polypeptide is labeled with a detectable label or is attached to a solid support. The proteins are useful for linking a bioactive molecule to a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H or I. The bioactive molecule is a toxin, a radiolabel or an antibody. The bioactive molecule causes death of the cell. A, B, C, D, E, F, G, H, or I, or antibodies against them are useful for modulating a biological activity of a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H, or I. The cell is killed. The proteins are useful for identifying agonists or antagonists, for the preparation of a medicament useful in the treatment of a condition which is responsive to the proteins, as molecular weight markers for protein electrophoresis purposes, and as therapeutic agents for treating sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis. Nucleic acids encoding the proteins are useful as hybridisation probes, in chromosome and gene mapping, in the generation of anti-sense RNA and DNA, for the preparation of the proteins, to generate transgenic or knockout animals which are useful in the development and screening of therapeutic useful reagents, for chromosome identification, and in gene therapy. The antibody is useful as a therapeutic agent, in a diagnostic assay and for affinity purification of the protein from recombinant cell culture natural sources. The present sequence represents a novel secreted or transmembrane protein of the invention

XX

SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 5; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 5
ABU90953
ID ABU90953 standard; protein; 177 AA.
XX
AC ABU90953;
XX
DT 11-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO10272.
XX
KW Human; secreted and transmembrane protein; PRO; antibody therapy;
KW pharmaceutical; diagnostic; biosensor; bioreactor.
XX
OS Homo sapiens.
XX
PN US2003018173-A1.
XX
PD 23-JAN-2003.
XX
PF 01-MAY-2002; 2002US-00063515.
XX
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-401702/38.
DR N-PSDB; ACA91241.
XX
PT New antibody useful for identifying PRO polypeptides, for affinity
PT purification of PRO polypeptides, and for preparing a medicament for
PT diagnosing or treating conditions responsive to the antibody or PRO
PT polypeptide.
XX
PS Disclosure; Fig 156; 345pp; English.
XX
CC The invention describes an antibody that specifically binds to a PRO
CC polypeptide having a fully defined amino acid sequence given in the
CC specification. The antibody is useful in identifying PRO polypeptides
CC useful for various industrial applications, including pharmaceuticals,
CC diagnostics, biosensors and bioreactors. The antibody is also used for
CC affinity purification of PRO polypeptides from recombinant cell culture
CC or natural sources. The antibody, PRO polypeptide, or its agonists or
CC antagonists, may be used for preparing a medicament for diagnosing or
CC treating a condition responsive to the antibody, PRO polypeptide, or its
CC agonists or antagonists. This is the amino acid sequence of a novel human
CC secreted and transmembrane PRO polypeptide
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 6
ABO34012
ID ABO34012 standard; protein; 177 AA.
XX
AC ABO34012;
XX
DT 18-SEP-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO10272.
XX
KW Human; secreted/transmembrane protein; PRO; tumour; cancer; cytostatic.
XX
OS Homo sapiens.
XX
PN US2003009013-A1.
XX
PD 09-JAN-2003.
XX
PF 01-MAY-2002; 2002US-00063519.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.

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PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-447384/42.
DR   N-PSDB; ACD81618.
XX
PT   New isolated antibody specifically binding a PRO polypeptide, useful for
PT   the preparation of a medicament for treating disorders with the aberrant
PT   expression or activity of the PRO polypeptide, such as tumor conditions
PT   and cancer.
XX
PS   Disclosure; Fig 156; 223pp; English.
XX
CC   The invention relates to an antibody that binds to a secreted or
CC   transmembrane protein designated PRO1446 appearing as ABO33941. The
CC   protein is one of 84 PRO polypeptides which (along with their encoding
CC   nucleic acids) are disclosed in the specification. The methods and
CC   compositions of the present invention are useful for the preparation of a
CC   medicament for the treatment of disorders associated with the aberrant
CC   expression or activity of the PRO polypeptide, such as tumour conditions
CC   and cancer. They can also be used to generate transgenic or knockout
CC   animals useful in the development and screening of therapeutically useful
CC   reagents. The PRO polypeptides and encoding nucleic acids can be used as
CC   molecular weight markers for protein electrophoresis, chromosome
CC   identification and tissue typing. The antibodies may be used in various
CC   diagnostic, competitive binding and/or immunoprecipitation assays. The
CC   present sequence represents a PRO polypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 985;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-93;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 7
ABU72029
ID   ABU72029 standard; protein; 177 AA.
XX
AC   ABU72029;
XX
DT   11-JUN-2003  (first entry)
XX
DE   Novel human secreted and transmembrane protein PRO10272.
XX
KW   Human; secreted and transmembrane polypeptide; chromosome mapping;
KW   gene mapping; transgenic animal; knockout animal;
KW   therapeutic agent screening; chromosome identification; tissue typing;
KW   gene therapy.
XX
OS   Homo sapiens.
XX
PN   US2003018183-A1.
XX
PD   23-JAN-2003.
XX
PF   01-MAY-2002; 2002US-00063512.
XX
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-330984/31.
DR   N-PSDB; ACA60440.
XX
PT   New secreted and transmembrane PRO polypeptides and nucleic acid
PT   molecules encoding the polypeptides, useful in gene therapy or preparing
PT   a medicament for treating a condition that is responsive to the PRO
PT   polypeptide or antibody.
XX
PS   Disclosure; Fig 156; 409pp; English.
XX
CC   The invention describes novel isolated PRO polypeptides. The PRO
CC   polypeptides or anti-PRO antibodies are useful in preparing a medicament
CC   for treating a condition that is responsive to the PRO polypeptide or
CC   antibody. The PRO nucleotide sequences may be used as hybridisation
CC   probes in chromosome and gene mapping, or in generating antisense RNA and
CC   DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in
CC   assays to identify other proteins or molecules involved in binding
CC   reaction, to generate transgenic animals or knockout animals, which in
CC   turn are useful in the development and screening of therapeutically
CC   useful reagents, for chromosome identification, and tissue typing. The
CC   PRO polypeptides and nucleic acid molecules are also useful in gene
CC   therapy, and as molecular weight markers for protein electrophoresis
CC   purposes. The anti-PRO antibodies may be used in diagnostic assays for
CC   PRO, or for the affinity purification of PRO from recombinant cell
CC   culture or natural sources. This is the amino acid sequence of a novel
CC   human secreted and transmembrane PRO poypeptide
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 985;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-93;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
```

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Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 8
ABU71583
ID ABU71583 standard; protein; 177 AA.
XX
AC ABU71583;
XX
DT 10-JUN-2003 (first entry)
XX
DE Human secreted polypeptide PRO10272.
XX
KW Human; gene therapy; tumour; cancer.
XX
OS Homo sapiens.
XX
PN US2003013855-A1.
XX
PD 16-JAN-2003.
XX
PF 03-MAY-2002; 2002US-00063616.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 15-SEP-1999; 99US-00397342.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-330485/31.
DR N-PSDB; ACA58887.
XX
PT New isolated antibody specifically binding a PRO polypeptide, useful for
PT the preparation of a medicament for treating disorders with the aberrant
PT expression or activity of the PRO polypeptide, such as tumor conditions
PT and cancer.
XX
PS Example 19; Page 224; 406pp; English.
XX
CC The invention relates to an antibody that binds to a polypeptide with a
CC fully defined sequence given in the specification. The methods and
CC compositions (containing antibodies that specifically bind a PRO
CC polypeptide) of the present invention are useful for the preparation of a
CC medicament for the treatment of disorders associated with the aberrant
CC expression or activity of the PRO polypeptide, such as tumour conditions
CC and cancer. They can also be used to generate transgenic or knockout
CC animals useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides and encoding nucleic acids can be used as
CC molecular weight markers for protein electrophoresis, chromosome
CC identification and tissue typing. The PRO polypeptides are useful to
CC induce angiogenesis e.g wound healing; in the treatment of sports-related
CC joint problems, articular cartilage defects, osteoarthritis or rheumatoid
CC arthritis; diabetes; hyperinsulinaemia and hypoinsulinaemia. The
CC antibodies may be used in various diagnostic, competitive binding and/or
CC immunoprecipitation assays. The present sequence represents the amino
CC acid sequence of a PRO polypeptide of the invention
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 9
ABU72364
ID ABU72364 standard; protein; 177 AA.
XX
AC ABU72364;
XX
DT 16-JUN-2003 (first entry)
XX
DE Human PRO polypeptide #78.
XX
KW Human; PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression.
XX
OS Homo sapiens.
XX
PN US2002182638-A1.
XX
PD 05-DEC-2002.
XX
PF 02-MAY-2002; 2002US-00063547.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.

```
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-328612/04.
DR   N-PSDB; ACA64063.
XX
PT   An isolated secreted transmembrane polypeptide designated PRO, useful as
PT   a therapeutic agent.
XX
PS   Disclosure; Fig 156; 236pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides, and the polynucleotide sequences encoding them. The PRO
CC   polypeptides are secreted and transmembrane proteins. The PRO
CC   polypeptides and polynucleotides are useful for preparing a medicament
CC   useful in the treatment of a condition responsive to anti-PRO antibody.
CC   Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting
CC   its expression in specific cells, tissues or serum, and for affinity
CC   purification of PRO from recombinant cell culture or natural sources.
CC   ABU72287-ABU72370 represent the human PRO polypeptides of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 985;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-93;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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RESULT 10
ABU91037
ID   ABU91037 standard; protein; 177 AA.
XX
AC   ABU91037;
XX
DT   14-JUL-2003  (first entry)
XX
DE   Human PRO polypeptide #78.
XX
KW   Human; PRO polypeptide; secreted protein; transmembrane protein; rectal;
KW   lung; stomach; oesophageal; skin; tumour; cancer; cytostatic.
XX
OS   Homo sapiens.
XX
PN   US2003018168-A1.
XX
PD   23-JAN-2003.
XX
PF   02-MAY-2002; 2002US-00063569.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-401699/38.
DR   N-PSDB; ACA91327.
XX
PT   New isolated, secreted and transmembrane PRO polypeptide, useful for the
PT   diagnosis, prevention and treatment of rectal, lung, stomach, esophageal
PT   or skin cancers.
XX
PS   Disclosure; Fig 156; 235pp; English.
```

```
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides, and the polynucleotide sequences encoding them. The PRO
CC   polypeptides are secreted and transmembrane proteins. The PRO polypeptide
CC   and polynucleotide sequences are useful for the diagnosis, prevention and
CC   treatment of rectal, lung, stomach, oesophageal or skin tumours, and/or
CC   cancers. The PRO polypeptides are also useful as molecular weight
CC   markers. The PRO polynucleotide sequences are useful for chromosome
CC   identification, hybridisation probes, and for screening libraries of
CC   human cDNA, genomic DNA or mRNA. They may also be used in gene therapy,
CC   particularly for replacing a defective gene. ABU90960-ABU91043 represent
CC   the human PRO polypeptides of the invention
XX
SQ   Sequence 177 AA;

  Query Match            100.0%;  Score 985;  DB 6;  Length 177;
  Best Local Similarity  100.0%;  Pred. No. 1.4e-93;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 11
ABO27358
ID   ABO27358 standard; protein; 177 AA.
XX
AC   ABO27358;
XX
DT   11-SEP-2003  (first entry)
XX
DE   Human secreted/transmembrane polypeptide PRO10272.
XX
KW   Human; tumour; cancer; gene therapy; tissue typing.
XX
OS   Homo sapiens.
XX
PN   US2003009012-A1.
XX
PD   09-JAN-2003.
XX
PF   01-MAY-2002; 2002US-00063517.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
PR   22-MAR-2001; 2001US-00816744.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   30-MAY-2001; 2001US-00870574.
PR   01-JUN-2001; 2001WO-US017800.
PR   05-JUN-2001; 2001US-00874503.
PR   29-JUN-2001; 2001US-00869599.
PR   18-JUL-2001; 2001US-00908827.
PR   06-DEC-2001; 2001US-00006867.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Eaton DL,  Filvaroff E,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi JC,  Gurney AL,  Watanabe CK,  Wood WI;
XX
DR   WPI; 2003-447383/42.
DR   N-PSDB; ACD45226.
XX
PT   New isolated antibody specifically binding a PRO polypeptide, useful for
PT   the preparation of a medicament for treating disorders with the aberrant
PT   expression or activity of the PRO polypeptide, such as tumor conditions
PT   and cancer.
XX
PS   Dislcosure; Fig 156; 223pp; English.
XX
CC   The invention relates to an antibody that binds to a secreted and
CC   transmembrane PRO polypeptide. The methods and compositions of the
CC   present invention are useful for the preparation of a medicament for the
CC   treatment of disorders associated with the aberrant expression or
CC   activity of the PRO polypeptide, such as tumour conditions and cancer.
CC   They can also be used to generate transgenic or knockout animals useful
CC   in the development and screening of therapeutically useful reagents. The
CC   PRO polypeptides and encoding nucleic acids can be used as molecular
CC   weight markers for protein electrophoresis, chromosome identification and
CC   tissue typing. The antibodies may be used in various diagnostic,
CC   competitive binding and/or immunoprecipitation assays. The present
CC   sequence represents the amino acid sequence of a secreted and
CC   transmembrane PRO polypeptide
XX
SQ   Sequence 177 AA;

  Query Match            100.0%;  Score 985;  DB 6;  Length 177;
  Best Local Similarity  100.0%;  Pred. No. 1.4e-93;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 12
ABU92553
ID   ABU92553 standard; protein; 177 AA.
XX
AC   ABU92553;
XX
DT   17-JUL-2003  (first entry)
XX
```

DE Human secreted/transmembrane protein PRO10272.
XX
KW Human; PRO; secreted protein; transmembrane protein; cytostatic;
KW vulnerary; osteopathic; antiarthritic; antirheumatic; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW liver tumour; tumour necrosis factor; pericyte cell proliferation;
KW TNF-alpha; proteoglycans release; cartilage; cancer; wound healing;
KW cartilage defect; osteoarthritis; rheumatoid arthritis.
XX
OS Homo sapiens.
XX
PN US2003045684-A1.
XX
PD 06-MAR-2003.
XX
PF 02-MAY-2002; 2002US-00063553.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 15-SEP-1999; 99US-00397342.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-392892/37.
DR N-PSDB; ACA93774.
XX
PT New PRO994 polypeptide, useful for detecting tumors, or for stimulating
PT Tumor Necrosis Factor alpha, or pericyte proliferation, especially for
PT treating cancer, cartilage defects, osteoarthritis and rheumatoid
PT arthritis in a mammal.
XX
PS Disclosure; Fig 156; 235pp; English.
XX
CC The invention relates to a new isolated PRO994 polypeptide comprises an
CC amino acid sequence appearing as ABU92499, PRO994 lacking its associated
CC signal peptide, the extracellular domain of PRO994, the extracellular
CC domain of PRO994 (lacking it associated signal peptide) or the protein
CC encoded by the full-length coding sequence of the cDNA ATCC 203018. Also
CC included is a chimaeric molecule comprising the PRO994 polypeptide fused
CC to a heterologous amino acid sequence. The PRO polypeptide is useful in
CC pharmaceuticals, diagnostics, biosensors or bioreactors. It is
CC particularly useful for detecting tumours (e.g. lung tumour, colon
CC tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour)
CC in a mammal, for stimulating the release of tumour necrosis factor (TNF)-
CC alpha from human blood, for stimulating the proliferation of pericyte
CC cells, or stimulating the release of proteoglycans from cartilage. The
CC polypeptide may be employed for a variety of therapeutic purposes, e.g.
CC for treating cancer, wound healing, cartilage defects, osteoarthritis,
CC rheumatoid arthritis. Also disclosed are the cDNA encoding PRO994, 83
CC other PRO polypeptides and their encoding cDNAs. The present sequence
CC represents a PRO polypeptide of the invention
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
```

RESULT 13
ABU89699
ID ABU89699 standard; protein; 177 AA.
XX
AC ABU89699;
XX
DT 10-JUL-2003 (first entry)
XX
DE Human interleukin 17 homologue h-IL17-E/PRO10272.
XX
KW Human; interleukin 17; IL-17; IL17 receptor; angiogenesis;
KW T-lymphocyte proliferation; inflammatory cell infiltration;
KW immune related disorder; systemic lupus erythematosus; osteoarthritis;
KW rheumatoid arthritis; spondyloarthropathy; systemic sclerosis;
KW Sjogren's syndrome; sarcoidosis; autoimmune haemolytic anaemia;
KW thyroiditis; diabetes mellitus; immune-mediated renal disease;
KW demyelinating disease; Guillain-Barre syndrome; hepatobiliary disease;
KW hepatitis; inflammatory bowel disease; Whipple's disease; psoriasis;
KW immune-mediated skin disease; erythema multiforme; contact dermatitis;
KW allergic disease; asthma; atopic dermatitis; food hypersensitivity;
KW urticaria; immunologic disease of the lung; eosinophilic pneumonia;
KW idiopathic pulmonary fibrosis; transplantation associated disease;
KW graft-versus-host disease.
XX
OS Homo sapiens.
XX
PN US2003003546-A1.
XX
PD 02-JAN-2003.
XX
PF 22-MAR-2001; 2001US-00816744.
XX
PR 15-MAY-1998; 98US-0085579P.
PR 23-DEC-1998; 98US-0113621P.
PR 08-MAR-1999; 99WO-US005028.
PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
PR 14-MAY-1999; 99US-00311832.

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PR   14-MAY-1999;   99US-0134287P.
PR   14-MAY-1999;   99WO-US010733.
PR   09-JUN-1999;   99US-0138387P.
PR   23-DEC-1999;   99US-0172096P.
PR   30-DEC-1999;   99WO-US031274.
PR   11-JAN-2000; 2000US-0175481P.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000US-0191007P.
PR   21-MAR-2000; 2000WO-US007532.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-JUN-2000; 2000US-0213807P.
PR   24-AUG-2000; 2000WO-US023328.
PR   24-OCT-2000; 2000US-0242837P.
PR   26-OCT-2000; 2000US-0244072P.
PR   10-NOV-2000; 2000WO-US030873.
PR   28-NOV-2000; 2000US-0253646P.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Chen J, Filvaroff E, Fong S, Goddard A, Godowski P, Grimaldi C;
PI   Gurney A, Li H, Hillan K, Tumas D, Vanlookeren M, Vandlen R;
PI   Watanabe C, Williams PM, Wood WI, Yansura D;
XX
DR   WPI; 2003-428843/40.
DR   N-PSDB; ACA89852.
XX
PT   New PRO polypeptides and polynucleotides homologous to interleukin-17,
PT   useful for treating e.g. systemic lupus erythematosus, rheumatoid
PT   arthritis, osteoarthritis, juvenile chronic arthritis, or systemic
PT   sclerosis.
XX
PS   Claim 10; Fig 6; 129pp; English.
XX
CC   The invention relates to a nucleic acid having similarity to interleukin-
CC   17 (IL-17) or IL-17 receptor comprises at least 80% nucleic acid sequence
CC   identity to a nucleotide sequence which: (a) encodes a polypeptide having
CC   a sequence of appearing as ABU89697-ABU89700 and ABU89702-ABU89705 (P1-
CC   P8), lacking or having its associated signal peptide; (b) encodes an
CC   extracellular domain of P1-P8 lacking its associated signal peptide; (c)
CC   consists of a sequence of appearing as ACA89850-ACA89853 and ACA89855-
CC   ACA89858687; or (d) consists of the full-length coding sequence of
CC   selected from S1-S8, and of the cDNA deposited under ATCC accession
CC   number 209866, 203552, PTA-1185, PTA-2108, PTA-202, PTA-1535, PTA-1082 or
CC   PTA-2591. Also included are expression vectors, host cells, encoded
CC   proteins, chimaeric proteins, antibodies, ant/agonists, compounds
CC   inhibiting the expression of S1-S8 or activity (or mimicking the activity
CC   of) of P1-P8, stimulating/inhibiting the proliferation of T-lymphocytes
CC   using the polypeptides or ant/agonists, enhancing the infiltration of
CC   inflammatory cells into a tissue of a mammal by administering a PRO1031
CC   polypeptide, its an agonist or antagonist, and inhibiting angiogenesis
CC   induced by a PRO1031 polypeptide or its agonist in a mammal by
CC   administering a PRO1031 polypeptide, its ant/agonist or an anti-PRO1031
CC   antibody. The proteins, antibodies, ant/agonists and compounds are useful
CC   for treating an immune related disorder such as systemic lupus
CC   erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic
CC   arthritis, a spondyloarthropathy, systemic sclerosis, an idiopathic
CC   inflammatory myopathy, Sjogren's syndrome, systemic vasculitis,
CC   sarcoidosis, autoimmune haemolytic anaemia, autoimmune thrombocytopaenia,
CC   thyroiditis, diabetes mellitus, immune-mediated renal disease, a
CC   demyelinating disease of the central or peripheral nervous system,
CC   idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome, a
CC   chronic inflammatory demyelinating polyneuropathy, a hepatobiliary
CC   disease, infectious or autoimmune chronic active hepatitis, primary
CC   biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,
CC   inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's
CC   disease, an autoimmune or immune-mediated skin disease, a bullous skin
CC   disease, erythema multiforme, contact dermatitis, psoriasis, an allergic
CC   disease, asthma, allergic rhinitis, atopic dermatitis, food
CC   hypersensitivity, urticaria, an immunologic disease of the lung,
CC   eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity
CC   pneumonitis, a transplantation associated disease, graft rejection or
CC   graft-versus-host disease. The present sequence represents an IL17 or
CC   IL17 receptor homologue of the invention
XX
SQ   Sequence 177 AA;

  Query Match             100.0%;  Score 985;  DB 6;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-93;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 14
ABU81223
ID   ABU81223 standard; protein; 177 AA.
XX
AC   ABU81223;
XX
DT   23-JUN-2003  (first entry)
XX
DE   Human secreted polypeptide PRO10272.
XX
KW   Human; affinity purification.
XX
OS   Homo sapiens.
XX
PN   US2003027212-A1.
XX
PD   06-FEB-2003.
XX
PF   02-MAY-2002; 2002US-00063544.
XX
PR   30-DEC-1998;   98KR-00062142.
PR   08-MAR-1999;   99WO-US005028.
PR   14-MAY-1999;   99US-00311832.
PR   14-MAY-1999;   99WO-US010733.
PR   25-AUG-1999;   99US-00380137.
PR   25-AUG-1999;   99US-00380138.
PR   25-AUG-1999;   99US-00380139.
PR   25-AUG-1999;   99US-00380142.
PR   15-SEP-1999;   99US-00397342.
PR   18-OCT-1999;   99US-00403297.
PR   12-NOV-1999;   99US-00423844.
PR   30-DEC-1999;   99WO-US031274.
PR   18-FEB-2000; 2000WO-US004341.
PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005841.
PR   21-MAR-2000; 2000WO-US007532.
PR   22-MAY-2000; 2000WO-US014042.
PR   02-JUN-2000; 2000WO-US015264.
PR   22-AUG-2000; 2000US-00644848.
PR   24-AUG-2000; 2000WO-US023328.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   08-NOV-2000; 2000US-00709238.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   28-FEB-2001; 2001WO-US006520.
```

PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-341840/32.
DR N-PSDB; ACA67348.
XX
PT New monoclonal antibody that binds to a secreted and transmembrane
PT polypeptide, useful for detecting and purifying the polypeptide and also
PT for treating conditions responsive to the antibody.
XX
PS Example 19; Fig 156; 235pp; English.
XX
CC The invention relates to an antibody that binds to a secreted and
CC transmembrane polypeptide, PRO1136. The antibody is useful for preparing
CC a medicament useful in the treatment of a condition responsive to anti-
CC PRO antibody. The antibody is also useful in diagnostic assays for PRO,
CC by detecting its expression in specific cells, tissues or serum, and for
CC affinity purification of PRO from recombinant cell culture or natural
CC sources. The present sequence represents a cDNA encoding a PRO
CC polypeptide of the invention
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
Db 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
Db 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy 121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
Db 121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177

RESULT 15
ABO53337
ID ABO53337 standard; protein; 177 AA.
XX
AC ABO53337;
XX
DT 14-OCT-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO10272.
XX
KW Human; secreted and transmembrane protein; PRO.
XX
OS Homo sapiens.
XX
PN US2003027986-A1.
XX
PD 06-FEB-2003.
XX
PF 02-MAY-2002; 2002US-00063549.
XX
PR 30-DEC-1998; 98KR-00062142.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 15-SEP-1999; 99US-00397342.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-456358/43.
DR N-PSDB; ACH66321.
XX
PT PRO polypeptide, useful for preparing a medicament for treating a
PT condition associated with PRO polypeptide.
XX
PS Disclosure; Fig 156; 222pp; English.
XX
CC The invention describes an isolated polypeptide having at least 80, 85,
CC 90, 95 or 99% identity with: (a) a sequence having 46-335 amino acids, or
CC its extracellular domain; (b) a sequence having 46-335 amino acids,
CC lacking its associated signal peptide; or (c) an amino acid sequence
CC encoded by the full-length coding sequence of the cDNA (ATCC accession
CC number 209956). The PRO (secreted and transmembrane) polypeptide is
CC useful for preparing a medicament for treating a condition associated
CC with PRO polypeptide. This is the amino acid sequence of a novel human
CC secreted and transmembrane PRO polypeptide
XX
SQ Sequence 177 AA;

Query Match 100.0%; Score 985; DB 6; Length 177;
Best Local Similarity 100.0%; Pred. No. 1.4e-93;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
Db 1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
Db 61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

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Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Search completed: July 6, 2006, 07:56:39
Job time : 199 secs

GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 08:02:01 ; Search time 49 Seconds
(without alignments)
316.182 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 985
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

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2: /EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*
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6: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
7: /EMC_Celerra_SIDS3/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
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2	985	100.0	177	2	US-09-816-744-6	Sequence 6, Appli
3	985	100.0	233	2	US-09-949-016-9008	Sequence 9008, Ap
4	898	91.2	161	2	US-09-480-297A-14	Sequence 14, Appl
5	898	91.2	161	2	US-09-836-385-2	Sequence 2, Appli
6	898	91.2	161	3	US-10-366-791-14	Sequence 14, Appl
7	697	70.8	169	2	US-09-480-297A-18	Sequence 18, Appl
8	697	70.8	169	2	US-09-836-385-4	Sequence 4, Appli
9	697	70.8	169	3	US-10-366-791-18	Sequence 18, Appl
10	351.5	35.7	144	2	US-09-480-297A-16	Sequence 16, Appl
11	351.5	35.7	144	3	US-10-366-791-16	Sequence 16, Appl
12	165.5	16.8	197	2	US-09-480-297A-23	Sequence 23, Appl
13	165.5	16.8	197	2	US-09-747-259-4	Sequence 4, Appli
14	165.5	16.8	197	2	US-09-816-744-4	Sequence 4, Appli
15	165.5	16.8	197	2	US-10-036-041-11	Sequence 11, Appl
16	165.5	16.8	197	3	US-10-366-791-23	Sequence 23, Appl
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18	126.5	12.8	202	2	US-09-480-297A-8	Sequence 8, Appli
19	126.5	12.8	202	3	US-10-366-791-8	Sequence 8, Appli
20	125.5	12.7	96	2	US-09-611-152-26	Sequence 26, Appl
21	125.5	12.7	97	2	US-09-620-956-26	Sequence 26, Appl
22	125.5	12.7	97	2	US-09-631-531-26	Sequence 26, Appl
23	125.5	12.7	128	2	US-09-620-956-42	Sequence 42, Appl
24	125.5	12.7	128	2	US-09-611-152-42	Sequence 42, Appl
25	125.5	12.7	128	2	US-09-794-705A-27	Sequence 27, Appl
26	125.5	12.7	128	2	US-09-631-531-42	Sequence 42, Appl
27	125.5	12.7	130	2	US-09-231-788-27	Sequence 27, Appl
28	125.5	12.7	151	2	US-09-620-956-38	Sequence 38, Appl
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33	125.5	12.7	153	2	US-09-611-152-41	Sequence 41, Appl
34	125.5	12.7	153	2	US-09-794-705A-26	Sequence 26, Appl
35	125.5	12.7	153	2	US-09-631-531-41	Sequence 41, Appl
36	125.5	12.7	154	2	US-09-620-956-37	Sequence 37, Appl
37	125.5	12.7	154	2	US-09-611-152-37	Sequence 37, Appl
38	125.5	12.7	154	2	US-09-794-705A-22	Sequence 22, Appl
39	125.5	12.7	154	2	US-09-631-531-37	Sequence 37, Appl
40	125.5	12.7	157	2	US-09-620-956-43	Sequence 43, Appl
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42	125.5	12.7	157	2	US-09-794-705A-28	Sequence 28, Appl
43	125.5	12.7	157	2	US-09-631-531-43	Sequence 43, Appl
44	125.5	12.7	158	2	US-09-620-956-36	Sequence 36, Appl
45	125.5	12.7	158	2	US-09-611-152-36	Sequence 36, Appl
46	125.5	12.7	158	2	US-09-794-705A-21	Sequence 21, Appl
47	125.5	12.7	158	2	US-09-631-531-36	Sequence 36, Appl
48	125.5	12.7	160	2	US-09-620-956-14	Sequence 14, Appl
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51	125.5	12.7	160	2	US-09-620-956-17	Sequence 17, Appl
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66	125.5	12.7	160	2	US-09-794-705A-9	Sequence 9, Appli
67	125.5	12.7	160	2	US-09-794-705A-10	Sequence 10, Appl
68	125.5	12.7	160	2	US-09-794-705A-11	Sequence 11, Appl
69	125.5	12.7	160	2	US-09-794-705A-12	Sequence 12, Appl
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71	125.5	12.7	160	2	US-09-794-705A-17	Sequence 17, Appl
72	125.5	12.7	160	2	US-09-794-705A-18	Sequence 18, Appl
73	125.5	12.7	160	2	US-09-794-705A-19	Sequence 19, Appl
74	125.5	12.7	160	2	US-09-794-705A-20	Sequence 20, Appl
75	125.5	12.7	160	2	US-09-631-531-14	Sequence 14, Appl
76	125.5	12.7	160	2	US-09-631-531-15	Sequence 15, Appl
77	125.5	12.7	160	2	US-09-631-531-16	Sequence 16, Appl
78	125.5	12.7	160	2	US-09-631-531-17	Sequence 17, Appl
79	125.5	12.7	160	2	US-09-631-531-18	Sequence 18, Appl
80	125.5	12.7	160	2	US-09-631-531-22	Sequence 22, Appl
81	125.5	12.7	160	2	US-09-631-531-23	Sequence 23, Appl
82	125.5	12.7	160	2	US-09-631-531-24	Sequence 24, Appl
83	125.5	12.7	160	2	US-09-631-531-25	Sequence 25, Appl
84	125.5	12.7	180	2	US-09-231-788-2	Sequence 2, Appli
85	125.5	12.7	180	2	US-09-620-956-2	Sequence 2, Appli
86	125.5	12.7	180	2	US-09-611-152-2	Sequence 2, Appli
87	125.5	12.7	180	2	US-09-480-297A-2	Sequence 2, Appli
88	125.5	12.7	180	2	US-09-794-705A-2	Sequence 2, Appli
89	125.5	12.7	180	2	US-09-747-259-2	Sequence 2, Appli
90	125.5	12.7	180	2	US-09-816-744-2	Sequence 2, Appli
91	125.5	12.7	180	2	US-09-631-531-2	Sequence 2, Appli
92	125.5	12.7	180	2	US-09-796-844-35	Sequence 35, Appl
93	125.5	12.7	180	2	US-09-999-833A-470	Sequence 470, App
94	125.5	12.7	180	2	US-10-020-445A-470	Sequence 470, App
95	125.5	12.7	180	2	US-09-978-189-470	Sequence 470, App
96	125.5	12.7	180	2	US-10-017-085A-470	Sequence 470, App
97	125.5	12.7	180	3	US-10-366-791-2	Sequence 2, Appli
98	125.5	12.7	180	3	US-10-145-129A-470	Sequence 470, App
99	125.5	12.7	180	3	US-10-013-929A-470	Sequence 470, App

100 125.5 12.7 180 3 US-10-013-917A-470 Sequence 470, App

ALIGNMENTS

RESULT 1
US-09-747-259-6
; Sequence 6, Application US/09747259
; Patent No. 6569645
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P1(US)
; CURRENT APPLICATION NUMBER: US/09/747,259
; CURRENT FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 09/311,832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/172,096
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: US 60/213,087
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: US 09/644,848
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/242,837
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: PCT/US00/30873
; PRIOR FILING DATE: 2000-11-10
; PRIOR APPLICATION NUMBER: US 60/253,646
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-747-259-6

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Best Local Similarity 100.0%; Pred. No. 2e-100;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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RESULT 2
US-09-816-744-6
; Sequence 6, Application US/09816744
; Patent No. 6579520
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P2(US)
; CURRENT APPLICATION NUMBER: US/09/816,744
; CURRENT FILING DATE: 2001-03-22
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-816-744-6

Query Match 100.0%; Score 985; DB 2; Length 177;
Best Local Similarity 100.0%; Pred. No. 2e-100;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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RESULT 3
US-09-949-016-9008
; Sequence 9008, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

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;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9008
;   LENGTH: 233
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-9008

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RESULT 4
US-09-480-297A-14
; Sequence 14, Application US/09480297A
; Patent No. 6562578
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/09/480,297A
;  CURRENT FILING DATE:  2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-480-297A-14

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Db         63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122

Qy        139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161


RESULT 5
US-09-836-385-2
; Sequence 2, Application US/09836385
; Patent No. 6676939
; GENERAL INFORMATION:
;  APPLICANT: Hurst, Stephen D.
;  APPLICANT:  Zurawski, Sandra M.
;  APPLICANT:  Rennick, Donna M.
;  TITLE OF INVENTION: Cytokine Uses; Compositions; Methods
;  FILE REFERENCE: DX01088K
;  CURRENT APPLICATION NUMBER: US/09/836,385
;  CURRENT FILING DATE:  2001-04-17
;  PRIOR APPLICATION NUMBER: US 60/198,488
;  PRIOR FILING DATE: 2000-04-18
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: primate
US-09-836-385-2

  Query Match             91.2%;  Score 898;  DB 2;  Length 161;
  Best Local Similarity   100.0%;  Pred. No. 6.7e-91;
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Db        123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161


RESULT 6
US-10-366-791-14
; Sequence 14, Application US/10366791
; Patent No. 7005501
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/10/366,791
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: US/09/480,297A
;  PRIOR FILING DATE: 2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-366-791-14

  Query Match             91.2%;  Score 898;  DB 3;  Length 161;
  Best Local Similarity   100.0%;  Pred. No. 6.7e-91;
  Matches  159;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
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Db          3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62

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Db         63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122

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RESULT 7
US-09-480-297A-18
; Sequence 18, Application US/09480297A
; Patent No. 6562578
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/09/480,297A
;  CURRENT FILING DATE:  2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-480-297A-18

  Query Match             70.8%;  Score 697;  DB 2;  Length 169;
  Best Local Similarity   76.5%;  Pred. No. 9.6e-69;
  Matches  127;  Conservative    9;  Mismatches   22;  Indels    8;  Gaps    1;

Qy         19 QVVAFLAMVMGTHTY--------SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRH 70
              | ||||||::||||          || ||||||| |:  || |:||:  | | ||     |
Db          3 QAVAFLAMIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHTHH 62

Qy         71 PESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 130
              |||||||:||||||||||| ||||||||:|||||||||||||||||||||||||| |||
Db         63 AESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDPLGNS 122

Qy        131 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 176
              |||||||||||||||:|||: ||||||||||||||||||||||
Db        123 VPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVM 168


RESULT 8
US-09-836-385-4
; Sequence 4, Application US/09836385
; Patent No. 6676939
; GENERAL INFORMATION:
;  APPLICANT: Hurst, Stephen D.
;  APPLICANT:  Zurawski, Sandra M.
;  APPLICANT:  Rennick, Donna M.
;  TITLE OF INVENTION: Cytokine Uses; Compositions; Methods
;  FILE REFERENCE: DX01088K
;  CURRENT APPLICATION NUMBER: US/09/836,385
;  CURRENT FILING DATE:  2001-04-17
;  PRIOR APPLICATION NUMBER: US 60/198,488
;  PRIOR FILING DATE: 2000-04-18
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: rodent
US-09-836-385-4

  Query Match             70.8%;  Score 697;  DB 2;  Length 169;
  Best Local Similarity   76.5%;  Pred. No. 9.6e-69;
  Matches  127;  Conservative    9;  Mismatches   22;  Indels    8;  Gaps    1;

Qy         19 QVVAFLAMVMGTHTY--------SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRH 70
              | ||||||::||||          || ||||||| |:  || |:||:  | | ||     |
Db          3 QAVAFLAMIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHTHH 62

Qy         71 PESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 130
              |||||||:||||||||||| ||||||||:|||||||||||||||||||||||||| |||
Db         63 AESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDPLGNS 122

Qy        131 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 176
              |||||||||||||||:|||: ||||||||||||||||||||||
Db        123 VPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVM 168


RESULT 9
US-10-366-791-18
; Sequence 18, Application US/10366791
; Patent No. 7005501
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/10/366,791
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: US/09/480,297A
;  PRIOR FILING DATE: 2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-366-791-18

  Query Match             70.8%;  Score 697;  DB 3;  Length 169;
  Best Local Similarity   76.5%;  Pred. No. 9.6e-69;
  Matches  127;  Conservative    9;  Mismatches   22;  Indels    8;  Gaps    1;

Qy         19 QVVAFLAMVMGTHTY--------SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRH 70
              | ||||||::||||          || ||||||| |:  || |:||:  | | ||     |
Db          3 QAVAFLAMIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHTHH 62

Qy         71 PESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 130
              |||||||:||||||||||| ||||||||:|||||||||||||||||||||||||| |||
Db         63 AESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDPLGNS 122

Qy        131 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 176
              |||||||||||||||:|||: ||||||||||||||||||||||
Db        123 VPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVM 168


RESULT 10
US-09-480-297A-16
; Sequence 16, Application US/09480297A
; Patent No. 6562578
; GENERAL INFORMATION:
;  APPLICANT: Gorman, Daniel M.
;  APPLICANT:  Bazan, J. Fernando
;  APPLICANT:  Kastelein, Robert A.
;  TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
;  FILE REFERENCE: DX0917K
;  CURRENT APPLICATION NUMBER: US/09/480,297A
;  CURRENT FILING DATE:  2000-01-10
;  PRIOR APPLICATION NUMBER: 60/115,506
;  PRIOR FILING DATE: 1999-01-11
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 144
;   TYPE: PRT
;   ORGANISM: Mus musculus
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US-09-480-297A-16

Query Match 35.7%; Score 351.5; DB 2; Length 144;
Best Local Similarity 59.8%; Pred. No. 8.5e-31;
Matches 70; Conservative 6; Mismatches 36; Indels 5; Gaps 2;

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Qy         59 VPP--LEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCV 116
              :||   ||  | |    :  :  |||||||||| |||||||||:||| ||||||||||
Db         19 IPPRASEPHPPRR---ILQGQQGWPLNSRAISPWSYELDRDLNRVPQDWYHARCLCPHCV 75

Qy        117 SLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 173
              :||||||||| |||  |||||||||||||   |          |  :   |||  |
Db         76 TLQTGSHMDPLGNSVPLYHNQTVFYRRPCMARKVPIAATAWSAGLPSLLGLCVCAAP 132
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RESULT 11
US-10-366-791-16
; Sequence 16, Application US/10366791
; Patent No. 7005501
; GENERAL INFORMATION:
; APPLICANT: Gorman, Daniel M.
; APPLICANT: Bazan, J. Fernando
; APPLICANT: Kastelein, Robert A.
; TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
; FILE REFERENCE: DX0917K
; CURRENT APPLICATION NUMBER: US/10/366,791
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US/09/480,297A
; PRIOR FILING DATE: 2000-01-10
; PRIOR APPLICATION NUMBER: 60/115,506
; PRIOR FILING DATE: 1999-01-11
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-366-791-16

Query Match 35.7%; Score 351.5; DB 3; Length 144;
Best Local Similarity 59.8%; Pred. No. 8.5e-31;
Matches 70; Conservative 6; Mismatches 36; Indels 5; Gaps 2;

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Qy         59 VPP--LEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCV 116
              :||   ||  | |    :  :  |||||||||| |||||||||:||| ||||||||||
Db         19 IPPRASEPHPPRR---ILQGQQGWPLNSRAISPWSYELDRDLNRVPQDWYHARCLCPHCV 75

Qy        117 SLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRP 173
              :||||||||| |||  |||||||||||||   |          |  :   |||  |
Db         76 TLQTGSHMDPLGNSVPLYHNQTVFYRRPCMARKVPIAATAWSAGLPSLLGLCVCAAP 132
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RESULT 12
US-09-480-297A-23
; Sequence 23, Application US/09480297A
; Patent No. 6562578
; GENERAL INFORMATION:
; APPLICANT: Gorman, Daniel M.
; APPLICANT: Bazan, J. Fernando
; APPLICANT: Kastelein, Robert A.
; TITLE OF INVENTION: PURIFIED MAMMALIAN CYTOKINES; RELATED REAGENTS
; FILE REFERENCE: DX0917K
; CURRENT APPLICATION NUMBER: US/09/480,297A
; CURRENT FILING DATE: 2000-01-10
; PRIOR APPLICATION NUMBER: 60/115,506
; PRIOR FILING DATE: 1999-01-11
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 197
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-480-297A-23

Query Match 16.8%; Score 165.5; DB 2; Length 197;
Best Local Similarity 29.7%; Pred. No. 3.8e-10;
Matches 52; Conservative 16; Mismatches 70; Indels 37; Gaps 7;

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Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||   | |     :|||              :|   :|   |  || |       |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                |:   |:           : |:||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 ||  |  :  |  ||||  :     |   :         | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195
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RESULT 13
US-09-747-259-4
; Sequence 4, Application US/09747259
; Patent No. 6569645
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P1(US)
; CURRENT APPLICATION NUMBER: US/09/747,259
; CURRENT FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 09/311,832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/172,096
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: US 60/213,087
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: US 09/644,848
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/242,837
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: PCT/US00/30873
; PRIOR FILING DATE: 2000-11-10
; PRIOR APPLICATION NUMBER: US 60/253,646

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;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 4
;    LENGTH: 197
;    TYPE: PRT
;    ORGANISM: Homo Sapien
US-09-747-259-4

  Query Match             16.8%;  Score 165.5;  DB 2;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 3.8e-10;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
                 | :||     | |     :|||               :|   :|   |  || |       |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                   ||  |  :  |  ||||  :     |   :        | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 14
US-09-816-744-4
; Sequence 4, Application US/09816744
; Patent No. 6579520
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P2(US)
;  CURRENT APPLICATION NUMBER: US/09/816,744
;  CURRENT FILING DATE:  2001-03-22
;  Prior application data removed - consult PALM or file wrapper
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 4
;    LENGTH: 197
;    TYPE: PRT
;    ORGANISM: Homo Sapien
US-09-816-744-4

  Query Match             16.8%;  Score 165.5;  DB 2;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 3.8e-10;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
                 | :||     | |     :|||               :|   :|   |  || |       |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                   ||  |  :  |  ||||  :     |   :        | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 15
US-10-036-041-11
; Sequence 11, Application US/10036041
; Patent No. 6984519
; GENERAL INFORMATION:
;  APPLICANT: Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3030R1C8
;  CURRENT APPLICATION NUMBER: US/10/036,041
;  CURRENT FILING DATE:  2001-12-26
;  PRIOR APPLICATION NUMBER: 60/085579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: 60/112514
;  PRIOR FILING DATE: 1998-12-15
;  PRIOR APPLICATION NUMBER: 60/113300
;  PRIOR FILING DATE: 1998-12-22
;  PRIOR APPLICATION NUMBER: 60/113430
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/113605
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/113621
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/114140
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/115552
;  PRIOR FILING DATE: 1999-01-12
;  PRIOR APPLICATION NUMBER: 60/116843
;  PRIOR FILING DATE: 1999-01-22
;  PRIOR APPLICATION NUMBER: 60/125774
;  PRIOR FILING DATE: 1999-03-23
;  PRIOR APPLICATION NUMBER: 60/125778
;  PRIOR FILING DATE: 1999-03-23
;  PRIOR APPLICATION NUMBER: 60/125826
;  PRIOR FILING DATE: 1999-03-24
;  PRIOR APPLICATION NUMBER: 60/127035
;  PRIOR FILING DATE: 1999-03-31
;  PRIOR APPLICATION NUMBER: 60/127706
;  PRIOR FILING DATE: 1999-04-05
;  PRIOR APPLICATION NUMBER: 60/129122
;  PRIOR FILING DATE: 1999-04-13
;  PRIOR APPLICATION NUMBER: 60/130359
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 60/131270
;  PRIOR FILING DATE: 1999-04-27
;  PRIOR APPLICATION NUMBER: 60/131272
;  PRIOR FILING DATE: 1999-04-27
;  PRIOR APPLICATION NUMBER: 60/131291
;  PRIOR FILING DATE: 1999-04-27
;  PRIOR APPLICATION NUMBER: 60/132371
;  PRIOR FILING DATE: 1999-05-04
;  PRIOR APPLICATION NUMBER: 60/132379
;  PRIOR FILING DATE: 1999-05-04
;  PRIOR APPLICATION NUMBER: 60/132383
;  PRIOR FILING DATE: 1999-05-04
;  PRIOR APPLICATION NUMBER: 60/135750
;  PRIOR FILING DATE: 1999-05-25
;  PRIOR APPLICATION NUMBER: 60/138166
;  PRIOR FILING DATE: 1999-06-08
;  PRIOR APPLICATION NUMBER: 60/144791
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;  PRIOR FILING DATE: 1999-07-20
;  PRIOR APPLICATION NUMBER: 60/146970
;  PRIOR FILING DATE: 1999-08-03
;  PRIOR APPLICATION NUMBER: 60/162506
;  PRIOR FILING DATE: 1999-10-29
;  PRIOR APPLICATION NUMBER: 09/311832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: 09/380142
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: 09/644848
;  PRIOR FILING DATE: 2000-08-22
;  PRIOR APPLICATION NUMBER: 09/747259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: 09/816744
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: 09/854208
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: 09/854280
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: 09/874503
;  PRIOR FILING DATE: 2001-06-05
;  PRIOR APPLICATION NUMBER: 09/869599
;  PRIOR FILING DATE: 2001-06-29
;  PRIOR APPLICATION NUMBER: 09/908,827
;  PRIOR FILING DATE: 2001-07-18
;  PRIOR APPLICATION NUMBER: PCT/US99/10733
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: PCT/US99/28551
;  PRIOR FILING DATE: 1999-12-02
;  PRIOR APPLICATION NUMBER: PCT/US99/30720
;  PRIOR FILING DATE: 1999-12-22
;  PRIOR APPLICATION NUMBER: PCT/US00/05601
;  PRIOR FILING DATE: 2000-03-01
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: PCT/US00/14042
;  PRIOR FILING DATE: 2000-05-22
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  PRIOR APPLICATION NUMBER: PCT/US00/23522
;  PRIOR FILING DATE: 2000-08-23
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: PCT/US00/34956
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: PCT/US01/06520
;  PRIOR FILING DATE: 2001-02-28
;  PRIOR APPLICATION NUMBER: PCT/US01/17800
;  PRIOR FILING DATE: 2001-06-01
;  PRIOR APPLICATION NUMBER: PCT/US01/19692
;  PRIOR FILING DATE: 2001-06-20
;  PRIOR APPLICATION NUMBER: PCT/US01/21066
;  PRIOR FILING DATE: 2001-06-29
;  PRIOR APPLICATION NUMBER: PCT/US01/21735
;  PRIOR FILING DATE: 2001-07-09
;  NUMBER OF SEQ ID NOS: 80
; SEQ ID NO 11
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-036-041-11

  Query Match             16.8%;  Score 165.5;  DB 2;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 3.8e-10;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||    | |     :|||             :|   :|   |  || |      |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                 |:   |:          : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 ||  |  :  |  ||||  :     |   :         | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


Search completed: July  6, 2006, 08:03:20
Job time : 50 secs
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GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 08:02:41 ; Search time 185 Seconds
(without alignments)
443.184 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 985
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published_Applications_AA_Main:*
1: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	985	100.0	177	3	US-09-874-503-6	Sequence 6, Appli
2	985	100.0	177	3	US-09-816-744-6	Sequence 6, Appli
3	985	100.0	177	3	US-09-747-259-6	Sequence 6, Appli
4	985	100.0	177	3	US-09-908-827-6	Sequence 6, Appli
5	985	100.0	177	4	US-10-006-867-156	Sequence 156, App
6	985	100.0	177	4	US-10-063-547-156	Sequence 156, App
7	985	100.0	177	4	US-10-000-157-6	Sequence 6, Appli
8	985	100.0	177	4	US-10-063-551-156	Sequence 156, App
9	985	100.0	177	4	US-10-063-616-156	Sequence 156, App
10	985	100.0	177	4	US-10-063-569-156	Sequence 156, App
11	985	100.0	177	4	US-10-063-513-156	Sequence 156, App
12	985	100.0	177	4	US-10-063-515-156	Sequence 156, App
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22	985	100.0	177	4	US-10-063-563-156	Sequence 156, App
23	985	100.0	177	4	US-10-063-555-156	Sequence 156, App
24	985	100.0	177	4	US-10-063-594-156	Sequence 156, App
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30	985	100.0	177	4	US-10-063-595-156	Sequence 156, App
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53	985	100.0	177	4	US-10-063-689-156	Sequence 156, App
54	985	100.0	177	4	US-10-063-692-156	Sequence 156, App
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78	985	100.0	177	4	US-10-063-711-156	Sequence 156, App
79	985	100.0	177	4	US-10-063-712-156	Sequence 156, App
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99	985	100.0	177	4	US-10-063-604-156	Sequence 156, App
100	985	100.0	177	4	US-10-063-607-156	Sequence 156, App

ALIGNMENTS

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RESULT 1
US-09-874-503-6
; Sequence 6, Application US/09874503
; Patent No. US20020177188A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth J.
;  APPLICANT:  Hymowitz,Sarah G.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Starovasnik,Melissa A.
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P3(US)
;  CURRENT APPLICATION NUMBER: US/09/874,503
;  CURRENT FILING DATE:  2001-06-05
;  PRIOR APPLICATION NUMBER: US 60/253,646
;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: US 60/244,072
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 60/242,837
;  PRIOR FILING DATE: 2000-10-24
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: US 60/213,807
;  PRIOR FILING DATE: 2000-06-22
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: US 60/138,387
;  PRIOR FILING DATE: 1999-06-09
;  PRIOR APPLICATION NUMBER: US 60/134,287
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/131,022
;  PRIOR FILING DATE: 1999-04-26
;  PRIOR APPLICATION NUMBER: US 60/130,232
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: US 60/113,621
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: US 60/085,579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: US 09/854,208
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: US 09/854,280
;  PRIOR FILING DATE: 2001-05-20
;  PRIOR APPLICATION NUMBER: US 09/816,744
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: US 09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/644,848
;  PRIOR FILING DATE: 2000-08-22
;  PRIOR APPLICATION NUMBER: US 09/380,142
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: US 09/380,138
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US PCT/US01/06520
;  PRIOR FILING DATE: 2001-02-28
;  PRIOR APPLICATION NUMBER: US PCT/US00/34956
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: US PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: US PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: US PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  PRIOR APPLICATION NUMBER: US PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: US PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US PCT/US00/05601
;  PRIOR FILING DATE: 2000-03-01
;  PRIOR APPLICATION NUMBER: US PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: US PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US PCT/US99/10733
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US PCT/US99/05028
;  PRIOR FILING DATE: 1999-03-08
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-874-503-6

  Query Match           100.0%;  Score 985;  DB 3;  Length 177;
  Best Local Similarity  100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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RESULT 2
US-09-816-744-6
; Sequence 6, Application US/09816744
; Publication No. US20030003546A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
```

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;  FILE REFERENCE: P1381R1C1P2(US)
;  CURRENT APPLICATION NUMBER: US/09/816,744
;  CURRENT FILING DATE:  2001-03-22
;  Prior application data removed - consult PALM or file wrapper
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-816-744-6

  Query Match             100.0%;  Score 985;  DB 3;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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RESULT 3
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; Sequence 6, Application US/09747259
; Publication No. US20030008815A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/09/747,259
;  CURRENT FILING DATE:  2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  PRIOR APPLICATION NUMBER: US 60/213,087
;  PRIOR FILING DATE: 2000-06-22
;  PRIOR APPLICATION NUMBER: US 09/644,848
;  PRIOR FILING DATE: 2000-08-22
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: US 60/242,837
;  PRIOR FILING DATE: 2000-10-24
;  PRIOR APPLICATION NUMBER: PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: US 60/253,646
;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-747-259-6

  Query Match             100.0%;  Score 985;  DB 3;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

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RESULT 4
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; Sequence 6, Application US/09908827
; Publication No. US20030054442A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1C1(US)
;  CURRENT APPLICATION NUMBER: US/09/908,827
;  CURRENT FILING DATE:  2001-07-18
;  PRIOR APPLICATION NUMBER: 60/085,579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: 60/113,621
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/130,232
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 60/131,022
;  PRIOR FILING DATE: 1999-04-26
;  PRIOR APPLICATION NUMBER: 60/134,287
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: 60/138,387
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;  PRIOR FILING DATE: 1999-06-09
;  PRIOR APPLICATION NUMBER: 60/172,096
;  PRIOR FILING DATE: 1999-12-23
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;  PRIOR FILING DATE: 2000-01-11
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;  PRIOR APPLICATION NUMBER: 60/244,072
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;  PRIOR APPLICATION NUMBER: 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: 09/380,138
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;  PRIOR APPLICATION NUMBER: 09/644,848
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;  PRIOR APPLICATION NUMBER: 09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: 09/816,744
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: 09/854,208
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: 09/854,280
;  PRIOR FILING DATE: 2001-05-10
;  PRIOR APPLICATION NUMBER: PCT/US99/05028
;  PRIOR FILING DATE: 1999-03-08
;  PRIOR APPLICATION NUMBER: PCT/US99/10733
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05601
;  PRIOR FILING DATE: 2000-03-01
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000 08-24
;  PRIOR APPLICATION NUMBER: PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: PCT/US00/34956
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: PCT/US01/06520
;  PRIOR FILING DATE: 2001-02-28
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-09-908-827-6

  Query Match            100.0%;  Score 985;  DB 3;  Length 177;
  Best Local Similarity  100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 5
US-10-006-867-156
; Sequence 156, Application US/10006867
; Publication No. US20020119130A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/006,867
;  CURRENT FILING DATE:  2001-12-06
;  PRIOR APPLICATION NUMBER: 60/063435
;  PRIOR FILING DATE: 1997-10-29
;  PRIOR APPLICATION NUMBER: 60/064215
;  PRIOR FILING DATE: 1997-10-29
;  PRIOR APPLICATION NUMBER: 60/082797
;  PRIOR FILING DATE: 1998-04-22
;  PRIOR APPLICATION NUMBER: 60/083495
;  PRIOR FILING DATE: 1998-04-29
;  PRIOR APPLICATION NUMBER: 60/085579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: 60/087759
;  PRIOR FILING DATE: 1998-06-02
;  PRIOR APPLICATION NUMBER: 60/088021
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;  PRIOR APPLICATION NUMBER: 60/088029
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;  PRIOR FILING DATE: 1998-06-10
;  PRIOR APPLICATION NUMBER: 60/088811
;  PRIOR FILING DATE: 1998-06-10
;  PRIOR APPLICATION NUMBER: 60/088824
;  PRIOR FILING DATE: 1998-06-10
;  PRIOR APPLICATION NUMBER: 60/088825
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;  PRIOR APPLICATION NUMBER: 60/089952
;  PRIOR FILING DATE: 1998-06-19
;  PRIOR APPLICATION NUMBER: 60/090246
;  PRIOR FILING DATE: 1998-06-22
;  PRIOR APPLICATION NUMBER: 60/090444
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;  PRIOR APPLICATION NUMBER: 60/090688
;  PRIOR FILING DATE: 1998-06-25
;  PRIOR APPLICATION NUMBER: 60/090696
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;  PRIOR APPLICATION NUMBER: 60/090862
;  PRIOR FILING DATE: 1998-06-26
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; PRIOR APPLICATION NUMBER: 60/091628
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; PRIOR APPLICATION NUMBER: 60/096012
; PRIOR FILING DATE: 1998-08-10
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; PRIOR APPLICATION NUMBER: 60/105000
; PRIOR FILING DATE: 1998-10-20
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; PRIOR FILING DATE: 1998-10-20
; PRIOR APPLICATION NUMBER: 60/105881
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/106030
; PRIOR FILING DATE: 1998-10-28
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; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 60/106856
; PRIOR FILING DATE: 1998-11-03
; PRIOR APPLICATION NUMBER: 60/108807
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: 60/112419
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; PRIOR APPLICATION NUMBER: 09/380139
; PRIOR FILING DATE: 1998-08-25
; PRIOR APPLICATION NUMBER: 09/311832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/380137
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/380138
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/380142

Query Match 100.0%; Score 985; DB 4; Length 177;
Best Local Similarity 100.0%; Pred. No. 4.5e-86;
Matches 177; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 6
US-10-063-547-156
; Sequence 156, Application US/10063547
; Publication No. US20020182638A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,547
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-547-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
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Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 7
US-10-000-157-6
; Sequence 6, Application US/10000157
; Publication No. US20020182673A1
; GENERAL INFORMATION:
;  APPLICANT: Chen, Jian
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Goddard, Audrey
;  APPLICANT:  Godowski, Paul L.
;  APPLICANT:  Grimaldi, J.Christopher
;  APPLICANT:  Gurney, Austin
;  APPLICANT:  Li, Hanzhong
;  APPLICANT:  Hillan, Kenneth J.
;  APPLICANT:  Hymowitz, Sarah
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Starovasnik, Melissa.
;  APPLICANT:  VanLookeren, Menno
;  APPLICANT:  Vandlen, Richard
;  APPLICANT:  Watanabe, Colin
;  APPLICANT:  Williams, P.Mickey
;  APPLICANT:  Wood, William
;  APPLICANT:  Yansura, Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P4(US)
;  CURRENT APPLICATION NUMBER: US/10/000,157
;  CURRENT FILING DATE:  2001-10-30
;  PRIOR APPLICATION NUMBER: 60/085579
;  PRIOR FILING DATE: 1998-05-15
;  PRIOR APPLICATION NUMBER: 60/113621
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: 60/130232
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 60/131022
;  PRIOR FILING DATE: 1999-04-26
;  PRIOR APPLICATION NUMBER: 60/134287
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: 60/138387
;  PRIOR FILING DATE: 1999-06-09
;  PRIOR APPLICATION NUMBER: 60/172096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: 60/175481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: 60/191007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/213807
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;  PRIOR APPLICATION NUMBER: 60/242837
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;  PRIOR APPLICATION NUMBER: 09/380142
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;  PRIOR APPLICATION NUMBER: 09/747259
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;  PRIOR APPLICATION NUMBER: 09/929404
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;  PRIOR APPLICATION NUMBER: 09/931836
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;  PRIOR APPLICATION NUMBER: PCT/US99/05028
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;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05601
;  PRIOR FILING DATE: 2001-03-01
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
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;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: PCT/US00/30873
;  PRIOR FILING DATE: 2000-11-10
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: PCT/US00/34956
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: PCT/US01/06520
;  PRIOR FILING DATE: 2001-02-28
;  PRIOR APPLICATION NUMBER: PCT/US01/17800
;  PRIOR FILING DATE: 2001-06-01
;  PRIOR APPLICATION NUMBER: PCT/US01/19692
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;  PRIOR APPLICATION NUMBER: PCT/US01/21066
;  PRIOR FILING DATE: 2001-06-29
;  PRIOR APPLICATION NUMBER: PCT/US01/21735
;  PRIOR FILING DATE: 2001-07-09
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-000-157-6

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
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Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 8
US-10-063-551-156
; Sequence 156, Application US/10063551
; Publication No. US20020183494A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,551
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-551-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 9
US-10-063-616-156
; Sequence 156, Application US/10063616
; Publication No. US20030013855A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,616
;  CURRENT FILING DATE:  2002-05-03
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-616-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 10
US-10-063-569-156
; Sequence 156, Application US/10063569
; Publication No. US20030018168A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
```

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;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,569
;  CURRENT FILING DATE:  2002-05-02
;     Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-569-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 11
US-10-063-513-156
; Sequence 156, Application US/10063513
; Publication No. US20030018172A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,513
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-513-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 12
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```
US-10-063-515-156
; Sequence 156, Application US/10063515
; Publication No. US20030018173A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,515
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-515-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 13
US-10-063-512-156
; Sequence 156, Application US/10063512
; Publication No. US20030018183A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,512
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-512-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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```
Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 14
US-10-063-502-156
; Sequence 156, Application US/10063502
; Publication No. US20030023042A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,502
;  CURRENT FILING DATE:  2002-05-01
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-502-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 15
US-10-063-549-156
; Sequence 156, Application US/10063549
; Publication No. US20030027986A1
; GENERAL INFORMATION:
;  APPLICANT: Eaton,Dan L.
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230R1C1
;  CURRENT APPLICATION NUMBER: US/10/063,549
;  CURRENT FILING DATE:  2002-05-02
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-063-549-156

  Query Match             100.0%;  Score 985;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-86;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


Search completed: July  6, 2006, 08:06:32
Job time : 187 secs
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OM protein - protein search, using sw model

Run on: July 6, 2006, 08:03:36 ; Search time 20 Seconds
(without alignments)
237.464 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 985
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112942 seqs, 26832045 residues

Total number of hits satisfying chosen parameters: 112942

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published_Applications_AA_New:*
1: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
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5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
7: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
8: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	985	100.0	177	7	US-11-311-555-6	Sequence 6, Appli
2	985	100.0	177	7	US-11-311-561-6	Sequence 6, Appli
3	985	100.0	177	7	US-11-101-316-156	Sequence 156, App
4	985	100.0	177	7	US-11-311-554-6	Sequence 6, Appli
5	170.5	17.3	202	7	US-11-253-200-19	Sequence 19, Appl
6	165.5	16.8	197	6	US-10-511-937-2611	Sequence 2611, Ap
7	165.5	16.8	197	6	US-10-196-749-448	Sequence 448, App
8	165.5	16.8	197	7	US-11-311-555-4	Sequence 4, Appli
9	165.5	16.8	197	7	US-11-311-561-4	Sequence 4, Appli
10	165.5	16.8	197	7	US-11-311-554-4	Sequence 4, Appli
11	165.5	16.8	197	7	US-11-253-200-17	Sequence 17, Appl
12	125.5	12.7	180	7	US-11-311-555-2	Sequence 2, Appli
13	125.5	12.7	180	7	US-11-311-561-2	Sequence 2, Appli
14	125.5	12.7	180	7	US-11-311-554-2	Sequence 2, Appli
15	125.5	12.7	202	7	US-11-311-555-8	Sequence 8, Appli
16	125.5	12.7	202	7	US-11-311-561-8	Sequence 8, Appli
17	125.5	12.7	202	7	US-11-311-554-8	Sequence 8, Appli
18	122	12.4	163	7	US-11-311-555-10	Sequence 10, Appl
19	122	12.4	163	7	US-11-311-561-10	Sequence 10, Appl
20	122	12.4	163	7	US-11-101-316-160	Sequence 160, App
21	122	12.4	163	7	US-11-311-554-10	Sequence 10, Appl
22	105.5	10.7	155	6	US-10-511-937-2498	Sequence 2498, Ap
23	78.5	8.0	150	6	US-10-953-349-17274	Sequence 17274, A
24	78.5	8.0	160	6	US-10-953-349-17273	Sequence 17273, A
25	78	7.9	229	6	US-10-953-349-30195	Sequence 30195, A
26	76.5	7.8	478	6	US-10-953-349-22099	Sequence 22099, A
27	75.5	7.7	264	6	US-10-953-349-29535	Sequence 29535, A
28	75.5	7.7	416	6	US-10-953-349-4173	Sequence 4173, Ap
29	75.5	7.7	446	6	US-10-953-349-4172	Sequence 4172, Ap
30	75.5	7.7	477	6	US-10-953-349-4171	Sequence 4171, Ap
31	75	7.6	329	6	US-10-449-902-56143	Sequence 56143, A
32	74.5	7.6	1373	7	US-11-105-233-187	Sequence 187, App
33	74	7.5	257	6	US-10-449-902-36378	Sequence 36378, A
34	74	7.5	909	6	US-10-449-902-44686	Sequence 44686, A
35	73.5	7.5	159	6	US-10-953-349-27235	Sequence 27235, A
36	73.5	7.5	164	6	US-10-953-349-27234	Sequence 27234, A
37	73.5	7.5	212	6	US-10-953-349-27233	Sequence 27233, A
38	73	7.4	486	7	US-11-293-697-4620	Sequence 4620, Ap
39	72	7.3	1212	6	US-10-449-902-41189	Sequence 41189, A
40	71.5	7.3	274	6	US-10-449-902-40249	Sequence 40249, A
41	71	7.2	565	6	US-10-449-902-39614	Sequence 39614, A
42	70.5	7.2	241	6	US-10-953-349-19412	Sequence 19412, A
43	70.5	7.2	263	6	US-10-505-928-610	Sequence 610, App
44	70.5	7.2	445	6	US-10-953-349-19411	Sequence 19411, A
45	70.5	7.2	457	6	US-10-953-349-19410	Sequence 19410, A
46	70.5	7.2	601	7	US-11-293-697-2507	Sequence 2507, Ap
47	70	7.1	185	7	US-11-293-697-4579	Sequence 4579, Ap
48	70	7.1	506	6	US-10-953-349-6523	Sequence 6523, Ap
49	69.5	7.1	329	6	US-10-449-902-56194	Sequence 56194, A
50	69.5	7.1	392	7	US-11-293-697-3941	Sequence 3941, Ap
51	69.5	7.1	427	6	US-10-449-902-33874	Sequence 33874, A
52	69	7.0	318	6	US-10-449-902-37522	Sequence 37522, A
53	69	7.0	340	6	US-10-953-349-36042	Sequence 36042, A
54	69	7.0	343	6	US-10-953-349-36041	Sequence 36041, A
55	69	7.0	400	6	US-10-953-349-36040	Sequence 36040, A
56	68.5	7.0	166	6	US-10-953-349-8616	Sequence 8616, Ap
57	68.5	7.0	432	6	US-10-449-902-31206	Sequence 31206, A
58	68	6.9	160	6	US-10-953-349-13889	Sequence 13889, A
59	68	6.9	165	6	US-10-953-349-30566	Sequence 30566, A
60	68	6.9	174	6	US-10-953-349-40190	Sequence 40190, A
61	68	6.9	184	6	US-10-953-349-30565	Sequence 30565, A
62	67.5	6.9	117	6	US-10-449-902-33742	Sequence 33742, A
63	67.5	6.9	173	6	US-10-953-349-39914	Sequence 39914, A
64	67.5	6.9	190	6	US-10-953-349-39913	Sequence 39913, A
65	67.5	6.9	223	6	US-10-953-349-34318	Sequence 34318, A
66	67.5	6.9	264	6	US-10-953-349-7411	Sequence 7411, Ap
67	67.5	6.9	272	6	US-10-953-349-7410	Sequence 7410, Ap
68	67.5	6.9	348	6	US-10-449-902-31997	Sequence 31997, A
69	67	6.8	308	6	US-10-953-349-33729	Sequence 33729, A
70	67	6.8	1023	7	US-11-293-697-3123	Sequence 3123, Ap
71	66.5	6.8	125	6	US-10-953-349-40191	Sequence 40191, A
72	66.5	6.8	167	6	US-10-449-902-36245	Sequence 36245, A
73	66.5	6.8	378	6	US-10-449-902-48084	Sequence 48084, A
74	66.5	6.8	718	6	US-10-953-349-37850	Sequence 37850, A
75	66.5	6.8	738	6	US-10-953-349-37849	Sequence 37849, A
76	66.5	6.8	800	6	US-10-953-349-37848	Sequence 37848, A
77	66.5	6.8	855	7	US-11-247-437-2	Sequence 2, Appli
78	66.5	6.8	2003	7	US-11-264-243-8	Sequence 8, Appli
79	66	6.7	154	6	US-10-449-902-42410	Sequence 42410, A
80	65.5	6.6	181	6	US-10-953-349-39019	Sequence 39019, A
81	65.5	6.6	214	6	US-10-471-571A-2630	Sequence 2630, Ap
82	65.5	6.6	226	6	US-10-953-349-27437	Sequence 27437, A
83	65.5	6.6	1023	7	US-11-283-329-184	Sequence 184, App
84	65	6.6	175	6	US-10-953-349-29275	Sequence 29275, A
85	65	6.6	293	6	US-10-449-902-44506	Sequence 44506, A
86	65	6.6	378	6	US-10-449-902-36106	Sequence 36106, A
87	65	6.6	495	6	US-10-449-902-54437	Sequence 54437, A
88	65	6.6	518	6	US-10-449-902-38345	Sequence 38345, A
89	65	6.6	584	6	US-10-449-902-53584	Sequence 53584, A
90	65	6.6	1460	7	US-11-247-437-14	Sequence 14, Appl
91	64.5	6.5	132	7	US-11-197-712-377	Sequence 377, App
92	64.5	6.5	152	6	US-10-449-902-37884	Sequence 37884, A
93	64.5	6.5	167	6	US-10-953-349-14147	Sequence 14147, A
94	64.5	6.5	167	6	US-10-953-349-20908	Sequence 20908, A
95	64.5	6.5	169	6	US-10-953-349-38494	Sequence 38494, A
96	64.5	6.5	229	6	US-10-449-902-30384	Sequence 30384, A
97	64.5	6.5	267	6	US-10-953-349-14146	Sequence 14146, A
98	64.5	6.5	267	6	US-10-953-349-20907	Sequence 20907, A

99	64.5	6.5	314	6	US-10-953-349-20906	Sequence 20906, A
100	64.5	6.5	333	6	US-10-953-349-14145	Sequence 14145, A

ALIGNMENTS

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RESULT 1
US-11-311-555-6
; Sequence 6, Application US/11311555
; Publication No. US20060088916A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,555
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-555-6

  Query Match             100.0%;  Score 985;  DB 7;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 3.7e-88;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 2
US-11-311-561-6
; Sequence 6, Application US/11311561
; Publication No. US20060088917A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,561
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-561-6

  Query Match             100.0%;  Score 985;  DB 7;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 3.7e-88;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 3
US-11-101-316-156
; Sequence 156, Application US/11101316
; Publication No. US20060099657A1
; GENERAL INFORMATION:
;  APPLICANT: Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: ANTIBODIES TO A POLYPEPTIDE ENCODED BY A NUCLEIC ACID
;  TITLE OF INVENTION:  UNDEREXPRESSED IN MELANOMA
;  FILE REFERENCE: P3230R1C17C1
;  CURRENT APPLICATION NUMBER: US/11/101,316
;  CURRENT FILING DATE:  2005-04-06
;  PRIOR APPLICATION NUMBER: 10/063526
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: 10/006867
;  PRIOR FILING DATE: 2001-12-06
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: 09/380137
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: PCT/US99/12252
;  PRIOR FILING DATE: 1999-06-02
;  PRIOR APPLICATION NUMBER: 60/087759
;  PRIOR FILING DATE: 1998-06-02
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 156
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-101-316-156

  Query Match             100.0%;  Score 985;  DB 7;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 3.7e-88;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 4
US-11-311-554-6
; Sequence 6, Application US/11311554
; Publication No. US20060134755A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,554
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 6
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-554-6

  Query Match             100.0%;  Score 985;  DB 7;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 3.7e-88;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177


RESULT 5
US-11-253-200-19
; Sequence 19, Application US/11253200
; Publication No. US20060142192A1
; GENERAL INFORMATION:
;  APPLICANT: Gao, Zeren
;  APPLICANT:  Kuestner, Rolf E.
;  APPLICANT:  Appleby, Mark W.
;  APPLICANT:  Lewis, Katherine E.
;  APPLICANT:  McKernan, Patricia A.
;  APPLICANT:  Okada, Shannon L.
;  APPLICANT:  Taft, David W.
;  APPLICANT:  Kuijper, Joseph L
;  APPLICANT:  Jaspers, Stephen R.
;  APPLICANT:  Levin, Steven D.
;  TITLE OF INVENTION: SOLUBLE ZCYTOR21, ANTI-ZCYTOR21
;  TITLE OF INVENTION:  ANTIBODIES AND BINDING PARTNERS AND METHODS OF USING IN
;  TITLE OF INVENTION:  INFLAMMATION
;  FILE REFERENCE: 04-13
;  CURRENT APPLICATION NUMBER: US/11/253,200
;  CURRENT FILING DATE:  2005-10-18
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;  PRIOR APPLICATION NUMBER: US 60/619,651
;  PRIOR FILING DATE: 2004-10-18
;  PRIOR APPLICATION NUMBER: US 60/622,207
;  PRIOR FILING DATE: 2004-10-25
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
;   LENGTH: 202
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-11-253-200-19

  Query Match             17.3%;  Score 170.5;  DB 7;  Length 202;
  Best Local Similarity   31.2%;  Pred. No. 1.9e-09;
  Matches   45;  Conservative   14;  Mismatches   58;  Indels   27;  Gaps    5;

Qy          53 RW-STVPVPPLEPARPNRHPESCRASEDGPL-----------------NSRAISPWRYE 93
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Db          61 RWEQALPVALVASLEATGH----RRQHEGPLAGTQCPVLRPEEVLEADTHERSISPWRYR 116

Qy          94 LDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGE---KG 150
               :| | || || |  | |||  |:: :||       ||  |  :  |  |:||  :
Db         117 IDTDENRYPQKLAVAECLCRGCINAKTGRETAAL-NSVQLLQSLLVLRRQPCSRDGTADP 175

Qy         151 THKGYCLERRLYRVSLACVCVRPR 174
               |   :       || : | || ||
Db         176 TPGSFAFHTEFIRVPVGCTCVLPR 199


RESULT 6
US-10-511-937-2611
; Sequence 2611, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
;  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
;  APPLICANT:  Wohlgemuth, Jay
;  APPLICANT:  Fry, Kirk
;  APPLICANT:  Woodward, Robert
;  APPLICANT:  Ly, Ngoc
;  APPLICANT:  Prentice, James
;  APPLICANT:  Morris, MacDonald
;  APPLICANT:  Rosenberg, Steven
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
;  TITLE OF INVENTION:  AND MONITORING TRANSPLANT REJECTION
;  FILE REFERENCE: 506612000104
;  CURRENT APPLICATION NUMBER: US/10/511,937
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US2003/012946
;  PRIOR FILING DATE: 2003-04-24
;  PRIOR APPLICATION NUMBER: US 10/131,831
;  PRIOR FILING DATE: 2002-04-24
;  PRIOR APPLICATION NUMBER: US 10/325,899
;  PRIOR FILING DATE: 2002-12-20
;  NUMBER OF SEQ ID NOS: 3117
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2611
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-511-937-2611

  Query Match             16.8%;  Score 165.5;  DB 6;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.5e-09;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy          31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
               | :||    | |     :|||              :|   :|   |  || |      |
Db          27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy          74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                 |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db          82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy         123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                    ||  |  :  |  |||| :     |   :         | : | || ||
Db         142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 7
US-10-196-749-448
; Sequence 448, Application US/10196749
; Publication No. US20060094864A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C340
;  CURRENT APPLICATION NUMBER: US/10/196,749
;  CURRENT FILING DATE:  2002-07-16
;  PRIOR APPLICATION NUMBER: 10/052586
;  PRIOR FILING DATE: 2002-01-15
;  PRIOR APPLICATION NUMBER: 60/059263
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/059266
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/062250
;  PRIOR FILING DATE: 1997-10-17
;  PRIOR APPLICATION NUMBER: 60/063120
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063121
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063486
;  PRIOR FILING DATE: 1997-10-21
;  PRIOR APPLICATION NUMBER: 60/063540
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063541
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063544
;  PRIOR FILING DATE: 1997-10-28
;  Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 448
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-196-749-448

  Query Match             16.8%;  Score 165.5;  DB 6;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.5e-09;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy          31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
               | :||    | |     :|||              :|   :|   |  || |      |
Db          27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy          74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                 |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db          82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy         123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                    ||  |  :  |  |||| :     |   :         | : | || ||
Db         142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 8
US-11-311-555-4
```

```
; Sequence 4, Application US/11311555
; Publication No. US20060088916A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,555
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 4
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-555-4

  Query Match             16.8%;  Score 165.5;  DB 7;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.5e-09;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||    | |     :|||              :|   :|   |  || |      |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 ||  |  :  |  ||||  :     |   :         | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 9
US-11-311-561-4
; Sequence 4, Application US/11311561
; Publication No. US20060088917A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,561
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 4
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-561-4

  Query Match             16.8%;  Score 165.5;  DB 7;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.5e-09;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||    | |     :|||              :|   :|   |  || |      |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 ||  |  :  |  ||||  :     |   :         | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 10
US-11-311-554-4
; Sequence 4, Application US/11311554
; Publication No. US20060134755A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
```

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;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,554
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 4
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-554-4

  Query Match             16.8%;  Score 165.5;  DB 7;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.5e-09;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||    | |     :|||             :|   :|   |  || |       |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 ||  |  :  |  |||| :     |   :       | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 11
US-11-253-200-17
; Sequence 17, Application US/11253200
; Publication No. US20060142192A1
; GENERAL INFORMATION:
;  APPLICANT: Gao, Zeren
;  APPLICANT:  Kuestner, Rolf E.
;  APPLICANT:  Appleby, Mark W.
;  APPLICANT:  Lewis, Katherine E.
;  APPLICANT:  McKernan, Patricia A.
;  APPLICANT:  Okada, Shannon L.
;  APPLICANT:  Taft, David W.
;  APPLICANT:  Kuijper, Joseph L
;  APPLICANT:  Jaspers, Stephen R.
;  APPLICANT:  Levin, Steven D.
;  TITLE OF INVENTION: SOLUBLE ZCYTOR21, ANTI-ZCYTOR21
;  TITLE OF INVENTION:  ANTIBODIES AND BINDING PARTNERS AND METHODS OF USING IN
;  TITLE OF INVENTION:  INFLAMMATION
;  FILE REFERENCE: 04-13
;  CURRENT APPLICATION NUMBER: US/11/253,200
;  CURRENT FILING DATE:  2005-10-18
;  PRIOR APPLICATION NUMBER: US 60/619,651
;  PRIOR FILING DATE: 2004-10-18
;  PRIOR APPLICATION NUMBER: US 60/622,207
;  PRIOR FILING DATE: 2004-10-25
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-253-200-17

  Query Match             16.8%;  Score 165.5;  DB 7;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.5e-09;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||    | |     :|||             :|   :|   |  || |       |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL-----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
                |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 ||  |  :  |  |||| :     |   :       | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 12
US-11-311-555-2
; Sequence 2, Application US/11311555
; Publication No. US20060088916A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,555
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
```

; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 2
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-311-555-2

Query Match 12.7%; Score 125.5; DB 7; Length 180;
Best Local Similarity 33.3%; Pred. No. 3.6e-05;
Matches 30; Conservative 16; Mismatches 39; Indels 5; Gaps 3;

Qy 83 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 142
Db 94 NKRSLSPWGYSINHDPSRIPVDLPEARCLCLGCVNPFT--MQEDRSMVSVPVFSQVPVRR 151

Qy 143 RPCHGEKGTHKGYCLERRLYR-VSLACVCV 171
Db 152 RLCPPPPRT--GPCRQRAVMETIAVGCTCI 179

RESULT 13
US-11-311-561-2
; Sequence 2, Application US/11311561
; Publication No. US20060088917A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P1(US)
; CURRENT APPLICATION NUMBER: US/11/311,561
; CURRENT FILING DATE: 2005-12-20
; PRIOR APPLICATION NUMBER: US/09/747,259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 09/311,832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/172,096
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/15264
; PRIOR FILING DATE: 2000-06-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 2
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-311-561-2

Query Match 12.7%; Score 125.5; DB 7; Length 180;
Best Local Similarity 33.3%; Pred. No. 3.6e-05;
Matches 30; Conservative 16; Mismatches 39; Indels 5; Gaps 3;

Qy 83 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 142
Db 94 NKRSLSPWGYSINHDPSRIPVDLPEARCLCLGCVNPFT--MQEDRSMVSVPVFSQVPVRR 151

Qy 143 RPCHGEKGTHKGYCLERRLYR-VSLACVCV 171
Db 152 RLCPPPPRT--GPCRQRAVMETIAVGCTCI 179

RESULT 14
US-11-311-554-2
; Sequence 2, Application US/11311554
; Publication No. US20060134755A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Fong,Sherman
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Li,Hanzhong
; APPLICANT: Hillan,Kenneth
; APPLICANT: Tumas,Daniel
; APPLICANT: VanLookeren,Menno
; APPLICANT: Vandlen,Richard
; APPLICANT: Watanabe,Colin
; APPLICANT: Williams,P.Mickey
; APPLICANT: Wood,William
; APPLICANT: Yansura,Daniel
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
; FILE REFERENCE: P1381R1C1P1(US)
; CURRENT APPLICATION NUMBER: US/11/311,554
; CURRENT FILING DATE: 2005-12-20
; PRIOR APPLICATION NUMBER: US/09/747,259
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: US 09/311,832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/172,096
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/US99/31274
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/175,481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/191,007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/US00/07532

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;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 2
;   LENGTH: 180
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-554-2

  Query Match             12.7%;  Score 125.5;  DB 7;  Length 180;
  Best Local Similarity   33.3%;  Pred. No. 3.6e-05;
  Matches   30;  Conservative   16;  Mismatches   39;  Indels    5;  Gaps    3;

Qy          83 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 142
               | |::||| | :: | :|:| ||  |||||  ||:  |    : |   :   :|    |
Db          94 NKRSLSPWGYSINHDPSRIPVDLPEARCLCLGCVNPFT--MQEDRSMVSVPVFSQVPVRR 151

Qy         143 RPCHGEKGTHKGYCLERRLYR-VSLACVCV 171
               | |     |  | | :| :   ::: | |:
Db         152 RLCPPPPRT--GPCRQRAVMETIAVGCTCI 179


RESULT 15
US-11-311-555-8
; Sequence 8, Application US/11311555
; Publication No. US20060088916A1
; GENERAL INFORMATION:
;  APPLICANT: Genentech, Inc.
;  APPLICANT:  Chen, Jian
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul
;  APPLICANT:  Grimaldi,Christopher
;  APPLICANT:  Gurney,Austin
;  APPLICANT:  Li,Hanzhong
;  APPLICANT:  Hillan,Kenneth
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  VanLookeren,Menno
;  APPLICANT:  Vandlen,Richard
;  APPLICANT:  Watanabe,Colin
;  APPLICANT:  Williams,P.Mickey
;  APPLICANT:  Wood,William
;  APPLICANT:  Yansura,Daniel
;  TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
;  FILE REFERENCE: P1381R1C1P1(US)
;  CURRENT APPLICATION NUMBER: US/11/311,555
;  CURRENT FILING DATE:  2005-12-20
;  PRIOR APPLICATION NUMBER: US/09/747,259
;  PRIOR FILING DATE: 2000-12-20
;  PRIOR APPLICATION NUMBER: US 09/311,832
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/172,096
;  PRIOR FILING DATE: 1999-12-23
;  PRIOR APPLICATION NUMBER: PCT/US99/31274
;  PRIOR FILING DATE: 1999-12-30
;  PRIOR APPLICATION NUMBER: US 60/175,481
;  PRIOR FILING DATE: 2000-01-11
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US00/05841
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/191,007
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/07532
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/US00/15264
;  PRIOR FILING DATE: 2000-06-02
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 39
; SEQ ID NO 8
;   LENGTH: 202
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-311-555-8

  Query Match             12.7%;  Score 125.5;  DB 7;  Length 202;
  Best Local Similarity   27.0%;  Pred. No. 4.1e-05;
  Matches   44;  Conservative   16;  Mismatches   70;  Indels   33;  Gaps    6;

Qy          36 WPSCCPSKGQ---------DTSEELLR--------------WSTVPVPPLEPARPNRHPE 72
               | :  |  |:          |  ||||                |: : | | ||    |
Db          14 WAAGAPRAGRRPARPRGCADRPEELLEQLYGRLAAGVLSAFHHTLQLGPREQARNASCPA 73

Qy          73 SCRASE---DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGN 129
                 |  :     | | |::||| | :  |  | |: |  | |||  |::   |   | |
Db          74 GGRPGDRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFGEE-DVRFR 132

Qy         130 SELLYHNQTVFYRRP-CHGEKGTHKGYCLERRLYRVSLACVCV 171
               |  :|    |  | | | | :  :          : : | ||
Db         133 SAPVYMPTVVLRRTPACAGGRSVY-----TEAYVTIPVGCTCV 170


Search completed: July  6, 2006, 08:06:58
Job time : 21 secs
```

OM protein - protein search, using sw model

Run on: July 6, 2006, 07:56:56 ; Search time 39 Seconds
(without alignments)
436.676 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 985
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : PIR_80:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	107	10.9	162	2	T32515	hypothetical prote
2	93.5	9.5	151	1	B45351	immediate-early pr
3	91	9.2	150	2	I49623	cytotoxic T-lympho
4	88.5	9.0	422	1	A60503	sperm-binding glyc
5	86	8.7	147	2	JC4628	cytotoxic T-lympho
6	83	8.4	1323	2	I78557	N-methyl-D-asparta
7	81.5	8.3	467	2	A47388	serine/threonine p
8	78.5	8.0	206	2	T25139	hypothetical prote
9	78	7.9	358	1	JQ0805	hydrogenase (EC 1.
10	77.5	7.9	961	1	TSHUP4	thrombospondin 4 p
11	77	7.8	263	2	T48742	hypothetical prote
12	77	7.8	344	1	S11776	hydrogenase (EC 1.
13	76.5	7.8	1323	2	S27224	N-methyl-D-asparta
14	75.5	7.7	446	2	G85064	hypothetical prote
15	75.5	7.7	898	2	T14764	hypothetical prote
16	75.5	7.7	1189	2	JC6118	SH2-containing ino
17	74.5	7.6	850	2	S56015	gastric mucin MUC5
18	74.5	7.6	892	2	T06818	DNA topoisomerase
19	74.5	7.6	1132	2	T03844	telomerase catalyt
20	74.5	7.6	1175	2	I57549	adenosine deaminas
21	74.5	7.6	1254	1	JQ1978	structural polypro
22	74.5	7.6	1373	2	JE0095	gastric mucin MUC5
23	74.5	7.6	1612	2	JC5210	DNA (cytosine-5-)-
24	74	7.5	237	2	A70672	hypothetical prote
25	73.5	7.5	735	2	I48101	ADAM 6 protein pre
26	73	7.4	482	2	B31795	collagen alpha 1(X
27	73	7.4	1840	2	T30250	GT1 protein - mous
28	72.5	7.4	240	2	A39842	insulin-like growt
29	72.5	7.4	294	2	T34537	hypothetical prote
30	72.5	7.4	419	2	T19871	hypothetical prote
31	72.5	7.4	602	2	H70796	hypothetical prote
32	72.5	7.4	1188	2	JC4889	phosphatidylinosit
33	72.5	7.4	1254	1	JQ1979	structural polypro
34	72.5	7.4	3744	2	S46715	hypothetical prote
35	72	7.3	216	2	T30657	hypothetical prote
36	72	7.3	238	2	I48605	insulin-like growt
37	72	7.3	360	1	S11968	hydrogenase (EC 1.
38	72	7.3	391	2	JC6193	tumor suppressor p
39	72	7.3	1348	2	S27812	probable epidermal
40	72	7.3	1348	2	A43917	probable epidermal
41	71.5	7.3	166	2	C72734	hypothetical prote
42	71.5	7.3	650	2	AB2004	hypothetical prote
43	71.5	7.3	2319	2	A47004	coagulation factor
44	71	7.2	488	2	S13423	stromelysin 3 (EC
45	71	7.2	530	2	T30505	hypothetical prote
46	71	7.2	564	2	T45866	hypothetical prote
47	71	7.2	1057	2	T30638	hypothetical prote
48	71	7.2	1333	2	A37488	Ras guanine nucleo
49	70.5	7.2	545	1	A39193	cytochrome cc3 pre
50	70.5	7.2	914	1	JN0550	iodide peroxidase
51	70.5	7.2	3942	2	T42730	Bassoon protein -
52	70	7.1	148	2	T21334	hypothetical prote
53	70	7.1	198	2	S14456	XA-1 protein precu
54	70	7.1	479	2	AD0845	probable flavoprot
55	70	7.1	583	1	A41129	radixin - mouse
56	69.5	7.1	108	2	B69152	polyferredoxin - M
57	69.5	7.1	183	2	A54151	microfibril-associ
58	69.5	7.1	330	2	S37595	mucin JUL10 - huma
59	69.5	7.1	348	2	JC5431	countertrypin prec
60	69.5	7.1	495	1	P1WLB	L1 protein - bovin
61	69.5	7.1	583	2	T02045	kinase associated
62	69	7.0	527	2	A53467	protein kinase SNF
63	69	7.0	762	2	E87592	hypothetical prote
64	69	7.0	925	2	S50490	hypothetical prote
65	69	7.0	1102	2	T17367	potassium channel
66	68.5	7.0	151	2	S69472	hypothetical prote
67	68.5	7.0	166	2	E96663	probable RING zinc
68	68.5	7.0	323	2	D82987	hypothetical prote
69	68.5	7.0	381	2	S38824	cellular tumor ant
70	68.5	7.0	382	1	B46233	transcription fact
71	68.5	7.0	386	1	S51648	cellular tumor ant
72	68.5	7.0	390	1	DNMS53	cellular tumor ant
73	68.5	7.0	429	2	A36220	transforming prote
74	68.5	7.0	605	1	FPMS	alpha-fetoprotein
75	68.5	7.0	993	2	A46415	basonuclin - human
76	68.5	7.0	1786	1	MMHUB1	laminin beta-1 cha
77	68.5	7.0	2796	2	JC4743	fatty-acid synthas
78	68	6.9	119	1	MSPG	motilin precursor
79	68	6.9	344	2	A32141	follistatin 1 prec
80	68	6.9	489	1	WMBEF1	UL41 protein - hum
81	68	6.9	490	2	T41646	hypothetical prote
82	68	6.9	504	2	T43496	hypothetical prote
83	68	6.9	643	2	S55610	polyprotein - equi
84	68	6.9	666	2	T24170	hypothetical prote
85	68	6.9	753	2	JQ0532	OP protein - Kenne
86	68	6.9	1121	2	JC7329	WD-repeat protein
87	67.5	6.9	170	2	T47938	RING finger protei
88	67.5	6.9	214	1	W2AD41	late L3 23K protei
89	67.5	6.9	264	2	B96763	thaumatin-like pro
90	67.5	6.9	543	2	S35047	mucin JUL7 - human
91	67.5	6.9	946	1	A47299	ror-related recept
92	67.5	6.9	1009	2	T18533	CryIAc toxin-bindi
93	67.5	6.9	1400	2	T52359	hypothetical prote
94	67.5	6.9	1553	2	T03301	rab3 effector prot
95	67	6.8	230	2	T15861	hypothetical prote
96	67	6.8	372	2	S75587	H+/Ca2+ exchanging
97	67	6.8	1052	2	T00067	hypothetical prote
98	67	6.8	4544	1	S02392	alpha-2-macroglobu
99	66.5	6.8	149	2	S78524	alpha-amylase inhi
100	66.5	6.8	208	2	G02090	cysteine-rich prot

ALIGNMENTS

RESULT 1
T32515
hypothetical protein C44B12.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C;Accession: T32515
R;Tin-Wollam, A.
submitted to the EMBL Data Library, December 1997
A;Description: The sequence of C. elegans cosmid C44B12.
A;Reference number: Z21183
A;Accession: T32515
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-162 <TIN>
A;Cross-references: UNIPROT:O44146; UNIPARC:UPI000007FCF3; EMBL:AF036692; PIDN:AAB88329.
A;Experimental source: strain Bristol N2; clone C44B12
C;Genetics:
A;Gene: CESP:C44B12.6
A;Map position: 4
A;Introns: 41/3; 95/3; 115/1

Query Match 10.9%; Score 107; DB 2; Length 162;
Best Local Similarity 26.2%; Pred. No. 0.011;
Matches 34; Conservative 23; Mismatches 39; Indels 34; Gaps 6;

```
Qy          43 KGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLP 102
               | :| ||  :  |:  :|                  | ||: |:| |: : |: |  |:|
Db          57 KSRDCSEPSIDKSSEVLP-----------------DQPLSERSICPYHHILNYDEKRIP 98

Qy         103 QDLYHARCLCPHCVSLQTG-SHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRL 161
                   :    | ||| | :  |  | :|     ::|: : : :   |  :|          |:
Db          99 AAISEVECSCPH-VKVHGGIIHCEP-----MMYNMRVMLFDDSC--DK-------YVERV 143

Qy         162 YRVSLACVCV 171
                :|:|||| |
Db         144 QKVALACVPV 153
```

RESULT 2
B45351
immediate-early protein 2 - saimiriine herpesvirus 1 (strain 11)
N;Alternate names: hypothetical protein ORF13
C;Species: saimiriine herpesvirus 1
A;Note: host Saimiri sciureus (common squirrel monkey)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Jul-1999
C;Accession: B45351; D36807
R;Nicholas, J.; Smith, E.P.; Coles, L.; Honess, R.
Virology 179, 189-200, 1990
A;Title: Gene expression in cells infected with gammaherpesvirus saimiri: properties of
A;Reference number: A45351; MUID:91021021; PMID:1699352
A;Accession: B45351
A;Molecule type: mRNA
A;Residues: 1-151 <NIC>
A;Cross-references: UNIPARC:UPI00001384DB; GB:M60286; NID:g331040; PIDN:AAA46156.1; PID:
R;Albrecht, J.
submitted to the EMBL Data Library, January 1992
A;Description: Primary structure of the herpesvirus saimiri genome.
A;Reference number: A36806
A;Accession: D36807
A;Molecule type: DNA
A;Residues: 1-151 <ALB>
A;Cross-references: UNIPARC:UPI00001384DB; GB:X64346; NID:g60320; PIDN:CAA45636.1; PID:g
R;Albrecht, J.C.; Nicholas, J.; Biller, D.; Cameron, K.R.; Biesinger, B.; Newman, C.; Wi
J. Virol. 66, 5047-5058, 1992
A;Title: Primary structure of the herpesvirus saimiri genome.
A;Reference number: A37309; MUID:92333688; PMID:1321287
A;Contents: annotation; protein-coding frames
A;Note: neither protein nor nucleotide sequence is given
C;Genetics:
A;Gene: 13
C;Superfamily: saimiri herpesvirus immediate-early protein 2
C;Keywords: early protein

Query Match 9.5%; Score 93.5; DB 1; Length 151;
Best Local Similarity 23.0%; Pred. No. 0.18;
Matches 40; Conservative 28; Mismatches 65; Indels 41; Gaps 8;

```
Qy          11 SSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELL-----RWSTVPVPPLEPA 65
               :||: | |  ::   :|     | :  | |  :         ::       |:|
Db           6 TSLVLLLL--LSIDCIVKSEITSAQTPRCLAANNSFPRSVMVTLSIRNWNT--------- 54

Qy          66 RPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMD 125
                  | |||:     :|: |||    : | :| |  :: |:|    ||:
Db          55 ------SSKRASD---YYNRSTSPWTLHRNEDQDRYPSVIWEAKCRYLGCVNAD------ 99

Qy         126 PRGNSELLYHNQTVFYRRPC----HGEKGTHKGYCLERRLYRVSLACVCVRPRV 175
                 || :  ||  :|  ::       | :    : ||: |  |:: | || | |
Db         100 --GNVD--YHMNSVPIQQEILVVRKGHQPCPNSFRLEKML--VTVGCTCVTPIV 147
```

RESULT 3
I49623
cytotoxic T-lymphocyte-associated antigen 8 precursor - mouse
N;Alternate names: immediate-early protein 2 (ORF13) homolog
C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 26-Aug-1999
C;Accession: I49623
R;Rouvier, E.; Luciani, M.
J. Immunol. 150, 5445-5456, 1993
A;Title: CTLA-8, cloned from an activated T cell, bearing AU-rich messenger RNA instabili
A;Reference number: I49623; MUID:93294300; PMID:8390535
A;Accession: I49623
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-150 <RES>
A;Cross-references: UNIPARC:UPI000012D484; GB:L13839; NID:g293329; PIDN:AAA37490.1; PID:g
C;Genetics:
A;Gene: Ctla-8
C;Superfamily: saimiri herpesvirus immediate-early protein 2

Query Match 9.2%; Score 91; DB 2; Length 150;
Best Local Similarity 29.7%; Pred. No. 0.3;
Matches 30; Conservative 17; Mismatches 44; Indels 10; Gaps 5;

```
Qy          73 SCRASEDGPLN--SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 130
               | :||   | :  :|: |||    : | :| |  :: |:|    ||: :    :|   ||
Db          50 SSKASSRRPSDYLNRSTSPWTLSRNEDPDRYPSVIWEAQCRHQRCVNAE--GKLDHHMNS 107

Qy         131 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCV 171
                |:     |  | |   ||      : :|: |  | : | ||
Db         108 VLIQQEILVLKREP---EKCPFT-FRVEKML--VGVGCTCV 142
```

RESULT 4
A60503
sperm-binding glycoprotein ZP3 precursor - golden hamster
N;Alternate names: sperm receptor; zona pellucida glycoprotein ZP3
C;Species: Mesocricetus auratus (golden hamster)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: A60503
R;Kinloch, R.A.; Ruiz-Seiler, B.; Wassarman, P.M.
Dev. Biol. 142, 414-421, 1990
A;Title: Genomic organization and polypeptide primary structure of zona pellucida glycop
A;Reference number: A60503; MUID:91078540; PMID:2257975
A;Accession: A60503
A;Molecule type: DNA
A;Residues: 1-422 <KIN>
A;Cross-references: UNIPARC:UPI00001744E3; GB:M63629
A;Note: the authors translated the codon CAA for residue 251 as Glu, and AGG for residue
C;Comment: This sulfated glycoprotein in the zona pellucida of the oocyte is a receptor f
C;Superfamily: sperm-binding glycoprotein ZP3; ZP domain homology
C;Keywords: glycoprotein; oocyte
F;45-300/Domain: ZP domain homology <ZPH>

Query Match 9.0%; Score 88.5; DB 1; Length 422;
Best Local Similarity 28.8%; Pred. No. 1.5;
Matches 42; Conservative 19; Mismatches 46; Indels 39; Gaps 9;

```
Qy          7 LGEDS--SLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTV------P 58
              || ::   |:|:   || | | :   |       | :: | | |: | :|||      |
Db         73 LGSENCRPLVSVATDVVRFKAQL---HE-------CSNRVQVT-EDALVYSTVLLHQPRP 121

Qy         59 VPPLEPARPNRH--PESCRASEDGPLNSRAISPWRYELDRDLN---------RLPQDLYH 107
              || |   | ||   |  ||    | ::| || |        ::         || :: ::
Db        122 VPGLSILRTNRADVPIECRYPRQGNVSSHAIRPTWVPFSTTVSSEEKLVFSLRLMEENWN 181

Qy        108 ARCLCP--HC-------VSLQTGSHM 124
                | |  |          :|||||:
Db        182 TEKLSPTSHLGEVAYLQAEVQTGSHL 207
```

RESULT 5
JC4628
cytotoxic T-lymphocyte-associated antigen 8 precursor - mouse
N;Alternate names: CTLA8 protein
C;Species: Mus musculus (house mouse)
C;Date: 10-May-1996 #sequence_revision 19-Jul-1996 #text_change 09-Jul-2004
C;Accession: JC4628
R;Yao, Z.; Timour, M.; Painter, S.; Fanslow, W.; Spriggs, M.
Gene 168, 223-225, 1996
A;Title: Complete nucleotide sequence of the mouse CTLA8 gene.
A;Reference number: JC4628; MUID:96194901; PMID:8654948
A;Accession: JC4628
A;Molecule type: DNA
A;Residues: 1-147 <YAO>
A;Cross-references: UNIPROT:Q62386; UNIPARC:UPI000016CB50; GB:U35108; NID:g1244499; PIDN
C;Genetics:
A;Gene: ctla8
A;Introns: 69/2
C;Superfamily: saimiri herpesvirus immediate-early protein 2
C;Keywords: cytokine; glycoprotein; lymphocyte
F;1-14/Domain: signal sequence #status predicted <SIG>
F;15-147/Product: cytotoxic T-lymphocyte-associated antigen 8 #status predicted <MAT>
F;60/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 8.7%; Score 86; DB 2; Length 147;
Best Local Similarity 27.3%; Pred. No. 0.85;
Matches 24; Conservative 16; Mismatches 40; Indels 8; Gaps 3;

```
Qy         84 SRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRR 143
              :|: |||    : | :| |  :: |:|    ||: :   :|   || |:       | |
Db         60 NRSTSPWTLHRNEDPDRYPSVIWEAQCRHQRCVNAE--GKLDHHMNSVLIQQEILVLKRE 117

Qy        144 PCHGEKGTHKGYCLERRLYRVSLACVCV 171
              |    :     : :|: |  | : | ||
Db        118 P----ESCPFTFRVEKML--VGVGCTCV 139
```

RESULT 6
I78557
N-methyl-D-aspartate receptor chain NMDAR2D-2 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004
C;Accession: I78557; I58158; D45219
R;Monyer, H.; Burnashev, N.; Laurie, D.J.; Sakmann, B.; Seeburg, P.H.
Neuron 12, 529-540, 1994
A;Title: Developmental and regional expression in the rat brain and functional propertie
A;Reference number: I58158; MUID:94206533; PMID:7512349
A;Accession: I78557
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-1323 <RES>
A;Cross-references: UNIPROT:Q62645; UNIPARC:UPI0000167934; GB:L31612; NID:g469068; PIDN:
A;Accession: I58158
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-66,'V',68-1323 <RE2>
A;Cross-references: UNIPARC:UPI0000170A70; GB:L31611; NID:g469066; PIDN:AAC37646.1; PID:
R;Ishii, T.; Moriyoshi, K.; Sugihara, H.; Sakurada, K.; Kadotani, H.; Yokoi, M.; Akazawa
J. Biol. Chem. 268, 2836-2843, 1993
A;Title: Molecular characterization of the family of the N-methyl-D-aspartate receptor s
A;Reference number: A45219; MUID:93155102; PMID:8428958
A;Accession: D45219
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: nucleic acid
A;Residues: 1265-1323 <ISH>
A;Cross-references: UNIPARC:UPI0000177969
A;Experimental source: brain
A;Note: sequence extracted from NCBI backbone (NCBIP:124265)
C;Superfamily: N-methyl-D-aspartate receptor 2D; glutamate receptor homology
F;451-879/Domain: glutamate receptor homology <GRH>

Query Match 8.4%; Score 83; DB 2; Length 1323;
Best Local Similarity 26.7%; Pred. No. 15;
Matches 35; Conservative 7; Mismatches 39; Indels 50; Gaps 7;

```
Qy         54 WSTVPVPPLEPAR---PNRHPESCRASEDGPL-------NSRAISPWRYELDRDLNRLPQ 103
              |:  | ||   ||   |  ||   |||   |         : ||   | :      :|  :
Db       1202 WAAGP-PPRRRARCGCPRPHPHRPRASHRAPAAAPHHHRHRRAAGGWDFPPPAPTSRSLE 1260

Qy        104 DL----------------YHARCLCPHCV----SLQTGSHMDPRGNSELLYHNQTVFYRR 143
              ||                    |||  |||       | | ||   ||
Db       1261 DLSSCPRAAPTRRLTGPSRHAR-RCPHAAHWGPPLPTASHRRHRG-------------- 1304

Qy        144 PCHGEKGTHKG 154
                |: || :|
Db       1305 ---GDLGTRRG 1312
```

RESULT 7
A47388
serine/threonine protein kinase - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 21-Jan-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A47388
R;Patriotis, C.; Makris, A.; Bear, S.E.; Tsichlis, P.N.
Proc. Natl. Acad. Sci. U.S.A. 90, 2251-2255, 1993
A;Title: Tumor progression locus 2 (Tpl-2) encodes a protein kinase involved in the prog
A;Reference number: A47388; MUID:93211939; PMID:7681591
A;Accession: A47388
A;Status: preliminary
A;Molecule type: nucleic acid
A;Residues: 1-467 <PAT>
A;Cross-references: UNIPROT:Q63562; UNIPARC:UPI000012EAD8; GB:M94454; NID:g207082; PIDN:
A;Experimental source: liver
A;Note: sequence extracted from NCBI backbone (NCBIN:128133, NCBIP:128134)
F;136-388/Domain: protein kinase homology <KIN>

Query Match 8.3%; Score 81.5; DB 2; Length 467;
Best Local Similarity 30.3%; Pred. No. 7.2;
Matches 33; Conservative 8; Mismatches 37; Indels 31; Gaps 5;

```
Qy         40 CPSKGQ--DTSEELLRWSTVPVPPLEPAR---------------PNRHPESCRASEDGP 81
              ||    |  : || ||| |   || |   |                    :|   ||  | |
Db         50 CPDSNQNKEHSESLLR-SGQEVPWLSSVRYGTVEDLLAFANHISNTTKHFYRCRPQESGI 108

Qy         82 LNSRAISP--WRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRG 128
              | :  |||   ||::| |:  :|  | :              ||   |||
Db        109 LLNMVISPQNGRYQIDSDVLLVPWKLTYR----------SIGSGFVPRG 147
```

RESULT 8
T25139
hypothetical protein T22H6.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T25139
R;McMurray, A.
submitted to the EMBL Data Library, August 1995

```
A;Reference number: Z19986
A;Accession: T25139
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-206 <WIL>
A;Cross-references: UNIPROT:Q22687; UNIPARC:UPI000007E874; EMBL:Z50797; PIDN:CAA90671.1;
A;Experimental source: clone T22H6
C;Genetics:
A;Gene: CESP:T22H6.1
A;Map position: X
A;Introns: 19/2; 80/3; 128/3; 162/3

  Query Match             8.0%;  Score 78.5;  DB 2;  Length 206;
  Best Local Similarity   20.0%;  Pred. No. 5.9;
  Matches   33;  Conservative   21;  Mismatches   46;  Indels   65;  Gaps    6;

Qy         34 SHWPSCCPS----------KGQDTSEELLRWSTVPVPPLEPARPNRHPESCRA------S 77
              ||:    ||          ||    |:: : |                | :      |
Db         63 SHYSPIAPSYQQALLRLQVKGLKHGEQITKSS---------------GKCNSKKLDTIS 106

Qy         78 EDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELL---- 133
               : ||  ||:  : | |: :  |||  |   :| |              || ||:|:
Db        107 AETPLRDRALCKFEYVLNYNPKRLPAALTEVKCSC------------PRPNSKLVGKRI 153

Qy        134 -------YHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCV 171
                    |  : : :   |:          :  ::|||: |
Db        154 FECEHLRYQVRVLMWDDSCN---------TFREHVETIALACIPV 189


RESULT 9
JQ0805
hydrogenase (EC 1.18.99.1) small chain precursor - Azotobacter vinelandii
N;Alternate names: hydrogenlyase; [NiFe]hydrogenase
C;Species: Azotobacter vinelandii
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: JQ0805
R;Menon, A.L.; Stults, L.W.; Robson, R.L.; Mortenson, L.E.
Gene 96, 67-74, 1990
A;Title: Cloning, sequencing and characterization of the [NiFe]hydrogenase-encoding stru
A;Reference number: JQ0805; MUID:91092503; PMID:2265761
A;Accession: JQ0805
A;Molecule type: DNA
A;Residues: 1-358 <MEN>
A;Cross-references: UNIPROT:P21950; UNIPARC:UPI000012ED27; GB:M33152; NID:g142310; PIDN:
A;Experimental source: strain OP
A;Note: part of this sequence, including the amino end of the mature protein, was confir
C;Genetics:
A;Gene: hoxK
C;Complex: heterodimer; large and small chain
C;Function:
A;Pathway: hydrogen metabolism
A;Note: contains iron-sulfur and nickel
C;Superfamily: hydrogenase (NiFe) small chain
C;Keywords: 3Fe-4S; 4Fe-4S; heterodimer; hydrogen metabolism; iron-sulfur protein; membr
F;1-45/Domain: signal sequence #status predicted <SIG>
F;46-358/Product: hydrogenase small chain #status experimental <MAT>
F;62,65,160,194/Binding site: 4Fe-4S cluster (Cys) (covalent) #status predicted
F;232,235,260,266/Binding site: 4Fe-4S cluster (His, Cys, Cys, Cys) (covalent) (type N3)
F;275,294,297/Binding site: 3Fe-4S cluster (Cys) (covalent) #status predicted

  Query Match             7.9%;  Score 78;  DB 1;  Length 358;
  Best Local Similarity   21.9%;  Pred. No. 11;
  Matches   37;  Conservative   19;  Mismatches   35;  Indels   78;  Gaps   11;

Qy         36 WPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELD 95
              | ||              |  |     : ||||              ::|:   :   |
Db        157 WGSCA-----------SWGCV-----QAARPN-------------PTQAVPIHKVITD 185

Qy         96 RDLNRLPQDLYHARCLCPHCVSLQTG----------SHMDPRGNSELLY----HNQTVF 140
              : : ::|         ||    : ||            :| :|  :: |    |::
Db        186 KPIVKVPG--------CPPIAEVMTGVITYMLTFGKLPELDRQGRPKMFYGQRIHDKC-- 235

Qy        141 YRRPCH----------GEKGTHKGYCLERRLYRVSL-------ACVCVR 172
                  ||||  |           ::|  ||||    ||:|         ||  ||
Db        236 YRRP-HFDAGQFVEHWDDEGARKGYC----LYKVGCKGPTSYNACSTVR 279


RESULT 10
TSHUP4
thrombospondin 4 precursor - human
C;Species: Homo sapiens (man)
C;Date: 06-Jan-1995 #sequence_revision 11-Aug-1995 #text_change 09-Jul-2004
C;Accession: A55710; S36069
R;Lawler, J.; McHenry, K.; Duquette, M.; Derick, L.
J. Biol. Chem. 270, 2809-2814, 1995
A;Title: Characterization of human thrombospondin-4.
A;Reference number: A55710; MUID:95155352; PMID:7852353
A;Accession: A55710
A;Molecule type: mRNA
A;Residues: 1-961 <LAW>
A;Cross-references: UNIPROT:P35443; UNIPARC:UPI0000038AB2; EMBL:Z19585; NID:g311625; PIDN
A;Note: authors translated the codon GTG for residue 616 as Ser
C;Genetics:
A;Gene: GDB:THBS4
A;Cross-references: GDB:463011; OMIM:600715
A;Map position: 1q21-1q23
C;Complex: homotrimer, disulfide linked
C;Function:
A;Description: participates in cell migration and adhesion, and in platelet aggregation
C;Superfamily: thrombospondin 3; EGF homology
C;Keywords: beta-hydroxyasparagine; beta-hydroxyaspartic acid; calcium binding; cell adhe
F;1-21/Domain: signal sequence #status predicted <SIG>
F;22-961/Product: thrombospondin 4 #status predicted <MAT>
F;290-324/Domain: EGF homology <EGF1>
F;330-362/Domain: EGF homology <EGF>
F;562-564/Region: cell attachment (R-G-D) motif
F;303/Modified site: erythro-beta-hydroxyaspartic acid (Asp) #status predicted
F;343/Modified site: erythro-beta-hydroxyasparagine (Asn) #status predicted
F;612,941/Binding site: carbohydrate (Asn) (covalent) #status predicted

  Query Match             7.9%;  Score 77.5;  DB 1;  Length 961;
  Best Local Similarity   27.3%;  Pred. No. 35;
  Matches   38;  Conservative   13;  Mismatches   47;  Indels   41;  Gaps    8;

Qy          7 LGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTV--PVPPLEP 64
              |||   |:   ::  :||      :| :   :| | | |  :      |||  | ||  |
Db        234 LGEVKDLLRQQVKETSFL-----RNTIAECQACGPLKFQSPTP-----STVVAPAPPAPP 283

Qy         65 ARPNRHPES--------CRASED----GPLNSRAISPWRYE------LDRDLNRLPQDLY 106
              || |  :|        |  | |    ||       | |       :| |     :  |
Db        284 TRPPRRCDSNPCFRGVQCTDSRDGFQCGP------CPEGYTGNGITCIDVD-----ECKY 332

Qy        107 HARCLCPHCVSLQTGSHMD 125
              |      ||::|  |   |
Db        333 HPCYPGVHCINLSPGFRCD 351


RESULT 11
T48742
hypothetical protein 8D4.160 [imported] - Neurospora crassa
C;Species: Neurospora crassa
C;Date: 05-May-2000 #sequence_revision 05-May-2000 #text_change 19-May-2000
C;Accession: T48742
R;Schulte, U.; Aign, V.; Hoheisel, J.; Brandt, P.; Fartmann, B.; Holland, R.; Nyakatura,
submitted to the Protein Sequence Database, April 2000
A;Reference number: Z24541
A;Accession: T48742
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-263 <SCH>
A;Cross-references: UNIPARC:UPI0000179476; EMBL:AL353819; GSPDB:GN00112; NCSP:8D4.160
A;Experimental source: cosmid contig 8D4; strain 74
C;Genetics:
A;Gene: NCSP:8D4.160
A;Map position: 2
A;Introns: 32/3; 76/1; 133/1
```

C;Superfamily: Neurospora crassa hypothetical protein 8D4.160

Query Match 7.8%; Score 77; DB 2; Length 263;
Best Local Similarity 25.4%; Pred. No. 10;
Matches 34; Conservative 11; Mismatches 45; Indels 44; Gaps 8;

```
Qy          36 WPSCCPSKGQDTSE--ELLRW--STVPVPPLEPARPN-RHPESCRASE----------- 78
               | |   | :|::: :    :||  ::| ||      |   |  : ||
Db          43 WSSSLPVEGKESKKATSRVRWGAASVEVPKSAKIRARLRTNDHCRPPMYTKLRRDRMEAG 102

Qy          79 --------DGPL----NSRAISPWRYE---LDRDLNRLPQDL----YHARCLCPH----- 114
                       ||||        |:  |      :||       | |      |||| ||
Db         103 GSGWTRPWDGPLPCQCRGHALYVWENSPSYVDRSNANAQQVLGALKRHARCYCPRQLSSL 162

Qy         115 ---CVSLQTGSHMD 125
                  ||   ||   |
Db         163 DGLCVRCTTGRQTD 176
```

RESULT 12
S11776
hydrogenase (EC 1.18.99.1) (uptake) small chain precursor - Azotobacter chroococcum
C;Species: Azotobacter chroococcum
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 20-Apr-2000
C;Accession: S11776
R;Ford, C.M.; Garg, N.; Garg, R.P.; Tibelius, K.H.; Yates, M.G.; Arp, D.J.; Seefeldt, L.
Mol. Microbiol. 4, 999-1008, 1990
A;Title: The identification, characterization, sequencing and mutagenesis of the genes (
A;Reference number: S11776; MUID:91014699; PMID:2215219
A;Accession: S11776
A;Molecule type: DNA
A;Residues: 1-344 <FOR>
A;Cross-references: UNIPARC:UPI000016E12A; EMBL:X52961; NID:g38713; PIDN:CAA37133.1; PID
A;Experimental source: strain MCD1
C;Genetics:
A;Gene: hupS
C;Complex: heterodimer; large and small chain
C;Function:
A;Pathway: hydrogen metabolism
A;Note: contains iron-sulfur and nickel
C;Superfamily: hydrogenase (NiFe) small chain
C;Keywords: 3Fe-4S; 4Fe-4S; heterodimer; hydrogen metabolism; iron-sulfur protein; membr
F;1-34/Domain: signal sequence #status predicted <SIG>
F;35-344/Product: hydrogenase (uptake) small chain #status predicted <MAT>
F;51,54,146,180/Binding site: 4Fe-4S cluster (Cys) (covalent) #status predicted
F;218,221,246,252/Binding site: 4Fe-4S cluster (His, Ser, Cys, Cys) (covalent) (type N3)
F;261,280,283/Binding site: 3Fe-4S cluster (Cys) (covalent) #status predicted

Query Match 7.8%; Score 77; DB 1; Length 344;
Best Local Similarity 21.3%; Pred. No. 14;
Matches 36; Conservative 21; Mismatches 34; Indels 78; Gaps 11;

```
Qy          36 WPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYELD 95
               | ||              |  |     : |:||                ::|:   :   |
Db         143 WGSCA-----------SWGCV-----QAAKPN-------------PTQAVPIHKVITD 171

Qy          96 RDLNRLPQDLYHARCLCPHCVSLQTG----------SHMDPRGNSELLY----HNQTVF 140
               : : ::|         ||    : ||              :| :|  :: |    |:::
Db         172 KPMIKVPG--------CPPIAEVMTGVITYMLTFGKLPELDRQGRPKMFYGQRIHDKS-- 221

Qy         141 YRRPCH----------GEKGTHKGYCLERRLYRVSL-------ACVCVR 172
               |||| |          ::|  ||||    ||:|          ||  ||
Db         222 YRRP-HFDAGQFVEHWDDEGARKGYC----LYKVGCKGPTSYNACSTVR 265
```

RESULT 13
S27224
N-methyl-D-aspartate receptor epsilon-4 chain - mouse
C;Species: Mus musculus (house mouse)
C;Date: 25-Feb-1994 #sequence_revision 01-Sep-1995 #text_change 17-Mar-1999
C;Accession: S27224
R;Ikeda, K.; Nagasawa, M.; Mori, H.; Araki, K.; Sakimura, K.; Watanabe, M.; Inoue, Y.; M
FEBS Lett. 313, 34-38, 1992
A;Title: Cloning and expression of the epsilon-4 subunit of the NMDA receptor channel.
A;Reference number: S27224; MUID:93050214; PMID:1385220
A;Accession: S27224
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-1323 <IKE>
A;Cross-references: UNIPARC:UPI0000143827; EMBL:D12822
C;Superfamily: N-methyl-D-aspartate receptor 2D; glutamate receptor homology
C;Keywords: transmembrane protein
F;451-879/Domain: glutamate receptor homology <GRH>

Query Match 7.8%; Score 76.5; DB 2; Length 1323;
Best Local Similarity 25.5%; Pred. No. 60;
Matches 35; Conservative 6; Mismatches 41; Indels 55; Gaps 7;

```
Qy          54 WSTVPVP----PLEPAR-----PNRHPESCRASEDGPL-------NSRAISPWRYELDRD 97
               |:  | |    |  | |      |  ||   |||   |          : ||   |
Db        1195 WAPPPPPWAAGPPAPRRARCGCPRPHPHRPRASHRAPAAAPHHHRHRRAAGGWDLPPPAP 1254

Qy          98 LNRLPQDL----------------YHARCLCPHCV----SLQTGSHMDPRGNSELLYHNQ 137
                  :|  :||                  |||  |||       | | ||   ||
Db        1255 TSRSLEDLSSCPRAAPTRRLTGPSRHAR-RCPHAAHWGPPLPTASHRRHRG--------- 1304

Qy         138 TVFYRRPCHGEKGTHKG 154
                     |: || :|
Db        1305 ---------GDLGTRRG 1312
```

RESULT 14
G85064
hypothetical protein AT4g05150 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C;Accession: G85064
R;anonymous, The European Union Arabidopsis Genome Sequencing Consortium, The Cold Sprin
Nature 402, 769-777, 1999
A;Title: Sequence and analysis of chromosome 4 of the plant Arabidopsis thaliana.
A;Reference number: A85001; MUID:20083488; PMID:10617198
A;Accession: G85064
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-446 <STO>
A;Cross-references: UNIPROT:Q9M0Y0; UNIPARC:UPI00000AB105; GB:NC_001268; NID:g7267274; P
C;Genetics:
A;Gene: AT4g05150
A;Map position: 4

Query Match 7.7%; Score 75.5; DB 2; Length 446;
Best Local Similarity 22.7%; Pred. No. 24;
Matches 30; Conservative 21; Mismatches 44; Indels 37; Gaps 6;

```
Qy          44 GQDTSEELLRWSTVPVPP---LEPARP--------NRHPESCRASEDGPLNSRAISPWRY 92
               |  :|  ::| ||  :||   ::|  |         |  ||       : |:||:    |:|
Db        249 GSTSSAPVMRISTPELPPPVFIKPESPEPVSTPKSNPQPEQVMQQSNLPVNSQ----WQY 304

Qy          93 E---------LDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSEL----------- 132
                        ::: |  :|:      |    :| |:||   ||  :
Db        305 APGPGQQVHYQGHTIHQSP--VYYVPGSVPGNHMVQQGNHMVQPGNHMVQPVQMPGQYLQ 362

Qy         133 LYHNQTVFYRRP 144
                ||:  : | :|
Db        363 QYHHVPMGYHQP 374
```

RESULT 15
T14764
hypothetical protein DKFZp434H204.1 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T14764
R;Wambutt, R.; Heubner, D.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, August 1999
A;Reference number: Z18181

```
A;Accession: T14764
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-898 <WAM>
A;Cross-references: UNIPROT:Q9UFZ4; UNIPARC:UPI000006D6B6; EMBL:AL110226
A;Experimental source: adult testis; clone DKFZp434H204
C;Genetics:
A;Note: DKFZp434H204.1

  Query Match              7.7%;  Score 75.5;  DB 2;  Length 898;
  Best Local Similarity   24.4%;  Pred. No. 50;
  Matches   31;  Conservative    9;  Mismatches   48;  Indels   39;  Gaps    6;

Qy         34 SHWPSCCPSKGQDTSEELLRWSTVPVPPL--EPARPNRHPESCRASEDGPLNSRAISPWR 91
              | |  |  : |    : |:   | | | |  |  |||    : |     |     : ||
Db        739 SSWRECSEACGGGEQQRLV---TCPEPGLCEEALRPN----TTRPCNTHPCTQWVVGPW- 790

Qy         92 YELDRDLNRLPQDLYHARCLCP----------HCVSLQTGSHMDPRGNSELLYHNQTVFY 141
                          :|  |           ||: |||    |  :|:   |
Db        791 ---------------GQCSAPCGGGVQRRLVKCVNTQTGL---PEEDSDQCGHEAWPES 831

Qy        142 RRPCHGE 148
               |||  |
Db        832 SRPCGTE 838


Search completed: July  6, 2006, 08:02:27
Job time : 43 secs
```

GenCore version 5.1.9

OM protein - protein search, using sw model

Run on: July 6, 2006, 07:53:31 ; Search time 298 Seconds
(without alignments)
549.422 Million cell updates/sec

Title: US-10-617-573-6
Perfect score: 985
Sequence: 1 MRERPRLGEDSSLISLFLQV.....ERRLYRVSLACVCVRPRVMG 177

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2849598 seqs, 925015592 residues

Total number of hits satisfying chosen parameters: 2849598

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : UniProt_7.2:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	985	100.0	177	1	IL17E_HUMAN	Q9h293 homo sapien
2	898	91.2	161	2	Q2M3F0_HUMAN	Q2m3f0 homo sapien
3	697	70.8	169	2	Q8VHH8_MOUSE	Q8vhh8 mus musculu
4	652	66.2	153	2	Q8VHC9_MOUSE	Q8vhc9 mus musculu
5	170.5	17.3	194	2	Q8K4C5_MOUSE	Q8k4c5 mus musculu
6	165.5	16.8	197	1	IL17C_HUMAN	Q9p0m4 homo sapien
7	165.5	16.8	197	2	Q3MIG8_HUMAN	Q3mig8 homo sapien
8	138.5	14.1	212	2	Q5TKT1_BRARE	Q5tkt1 brachydanio
9	136.5	13.9	169	2	Q7T1P7_CHICK	Q7t1p7 gallus gall
10	130.5	13.2	169	2	Q5XP68_CHICK	Q5xp68 gallus gall
11	127.5	12.9	203	2	Q6DIY0_XENTR	Q6diy0 xenopus tro
12	126.5	12.8	202	1	IL17D_HUMAN	Q8tad2 homo sapien
13	126.5	12.8	202	2	Q5VUZ7_HUMAN	Q5vuz7 homo sapien
14	125.5	12.7	180	1	IL17B_HUMAN	Q9uhf5 homo sapien
15	125.5	12.7	180	2	Q6IAG3_HUMAN	Q6iag3 homo sapien
16	123.5	12.5	180	1	IL17B_MOUSE	Q9qxt6 mus musculu
17	122	12.4	153	1	IL17F_HUMAN	Q96pd4 homo sapien
18	122	12.4	163	2	Q6NSI0_HUMAN	Q6nsi0 homo sapien
19	121	12.3	205	2	Q8K4C4_MOUSE	Q8k4c4 mus musculu
20	120.5	12.2	146	2	Q70I21_ONCMY	Q70i21 oncorhynchu
21	118.5	12.0	153	2	Q8K4C3_MOUSE	Q8k4c3 mus musculu
22	118.5	12.0	161	2	Q7TNI7_MOUSE	Q7tni7 mus musculu
23	116.5	11.8	178	1	IL17B_MESAU	Q9eqi6 mesocricetu
24	114	11.6	111	2	Q9EQI7_RAT	Q9eqi7 rattus norv
25	112.5	11.4	167	2	Q5TKT2_BRARE	Q5tkt2 brachydanio
26	112	11.4	153	2	Q5BJ95_RAT	Q5bj95 rattus norv
27	111	11.3	162	2	Q5TKT0_BRARE	Q5tkt0 brachydanio
28	107	10.9	162	2	O44146_CAEEL	O44146 caenorhabdi
29	105.5	10.7	155	1	IL17_HUMAN	Q16552 homo sapien
30	105.5	10.7	155	2	Q5T2P0_HUMAN	Q5t2p0 homo sapien
31	105	10.7	140	2	Q5TKT3_BRARE	Q5tkt3 brachydanio
32	104	10.6	162	2	Q4RTP8_TETNG	Q4rtp8 tetraodon n
33	103.5	10.5	155	2	Q6NZ94_HUMAN	Q6nz94 homo sapien
34	102.5	10.4	206	2	Q70I20_ONCMY	Q70i20 oncorhynchu
35	100.5	10.2	153	1	IL17_BOVIN	Q687y7 bos taurus
36	99	10.1	186	2	Q6L5M4_CIOIN	Q6l5m4 ciona intes
37	98.5	10.0	153	2	Q5TKT4_BRARE	Q5tkt4 brachydanio
38	96.5	9.8	171	2	Q6L5M6_CIOIN	Q6l5m6 ciona intes
39	94.5	9.6	153	1	IL17_PIG	Q60i29 sus scrofa
40	93.5	9.5	151	1	IL17_SHV21	P24916 saimiriine
41	93.5	9.5	563	2	Q3RT09_RALME	Q3rt09 ralstonia m
42	91	9.2	150	1	IL17_RAT	Q61453 rattus norv
43	91	9.2	158	1	IL17_MOUSE	Q62386 mus musculu
44	91	9.2	158	2	Q544E6_MOUSE	Q544e6 mus musculu
45	90.5	9.2	151	1	IL17_SHV2C	O40633 saimiriine
46	90.5	9.2	151	2	Q778B0_9GAMA	Q778b0 saimiriine
47	88.5	9.0	422	1	ZP3_MESAU	P23491 mesocricetu
48	88.5	9.0	2197	2	Q618V1_CAEBR	Q618v1 caenorhabdi
49	87	8.8	499	2	Q9GZ34_TRYCR	Q9gz34 trypanosoma
50	86.5	8.8	1238	2	Q5CUC4_CRYPV	Q5cuc4 cryptospori
51	84.5	8.6	1238	2	Q5CMV9_CRYHO	Q5cmv9 cryptospori
52	84	8.5	311	2	Q7TIP3_HHV1	Q7tip3 human herpe
53	83	8.4	222	2	Q629D1_CAEBR	Q629d1 caenorhabdi
54	83	8.4	477	2	Q9BU21_HUMAN	Q9bu21 homo sapien
55	83	8.4	520	2	Q5T5R6_HUMAN	Q5t5r6 homo sapien
56	83	8.4	547	2	Q9M6E9_ABRPR	Q9m6e9 abrus preca
57	83	8.4	1323	1	NMDE4_RAT	Q62645 rattus norv
58	82.5	8.4	82	2	Q5U4M4_XENLA	Q5u4m4 xenopus lae
59	82.5	8.4	575	2	Q4S208_TETNG	Q4s208 tetraodon n
60	82	8.3	196	2	Q2VYI1_MAGSA	Q2vyi1 magnetospir
61	82	8.3	424	2	Q37S30_SPHAR	Q37s30 novosphingo
62	82	8.3	499	2	Q4E5Q4_TRYCR	Q4e5q4 trypanosoma
63	81.5	8.3	467	1	M3K8_RAT	Q63562 rattus norv
64	81.5	8.3	1085	2	Q4S5A3_TETNG	Q4s5a3 tetraodon n
65	81	8.2	722	2	Q4I726_GIBZE	Q4i726 gibberella
66	81	8.2	1577	2	Q9VS89_DROME	Q9vs89 drosophila
67	80.5	8.2	379	2	Q9NKZ8_EPTBU	Q9nkz8 eptatretus
68	80.5	8.2	1751	2	Q4SKI8_TETNG	Q4ski8 tetraodon n
69	80	8.1	358	2	Q9P9I4_HALMA	Q9p9i4 haloarcula
70	80	8.1	358	2	Q5V2V5_HALMA	Q5v2v5 haloarcula
71	80	8.1	387	2	Q6ZUL2_HUMAN	Q6zul2 homo sapien
72	80	8.1	731	2	Q4W8X6_ASPFU	Q4w8x6 aspergillus
73	79.5	8.1	171	2	Q6L5M5_CIOIN	Q6l5m5 ciona intes
74	79.5	8.1	480	2	Q4R8F0_MACFA	Q4r8f0 macaca fasc
75	79.5	8.1	978	2	Q6ZPI9_MOUSE	Q6zpi9 mus musculu
76	79.5	8.1	1146	2	Q5B1H7_EMENI	Q5b1h7 aspergillus
77	79	8.0	262	2	Q7Y0V1_9FABA	Q7y0v1 abrus pulch
78	79	8.0	701	2	Q7U657_SYNPX	Q7u657 synechococc
79	79	8.0	862	1	MUCDL_RAT	Q9jik1 rattus norv
80	79	8.0	862	2	Q4FZY9_RAT	Q4fzy9 rattus norv
81	79	8.0	1122	2	Q4T8A6_TETNG	Q4t8a6 tetraodon n
82	78.5	8.0	174	2	Q8RVH7_9ROSI	Q8rvh7 populus tre
83	78.5	8.0	206	2	Q22687_CAEEL	Q22687 caenorhabdi
84	78.5	8.0	886	2	Q4DFN1_TRYCR	Q4dfn1 trypanosoma
85	78.5	8.0	887	2	Q4DGN1_TRYCR	Q4dgn1 trypanosoma
86	78.5	8.0	1731	2	Q4S0D3_TETNG	Q4s0d3 tetraodon n
87	78.5	8.0	2539	2	Q4RMS9_TETNG	Q4rms9 tetraodon n
88	78	7.9	210	2	Q8AJZ3_9HIV1	Q8ajz3 human immun
89	78	7.9	358	1	MBHS_AZOVI	P21950 azotobacter
90	78	7.9	358	2	Q4IUP9_AZOVI	Q4iup9 azotobacter
91	78	7.9	459	1	CLC14_MOUSE	Q8vcp9 mus musculu
92	78	7.9	459	2	Q3TP72_MOUSE	Q3tp72 m 13 days e
93	78	7.9	1501	2	Q8CIQ9_MOUSE	Q8ciq9 mus musculu
94	78	7.9	1521	2	Q3TDN0_MOUSE	Q3tdn0 mus musculu
95	78	7.9	1521	2	Q3UUL8_MOUSE	Q3uul8 mus musculu
96	78	7.9	1521	2	Q80ZZ8_MOUSE	Q80zz8 mus musculu
97	78	7.9	1521	2	Q8CGS3_MOUSE	Q8cgs3 mus musculu
98	78	7.9	1521	2	Q8CIP6_MOUSE	Q8cip6 mus musculu
99	77.5	7.9	496	2	Q3SDA3_PARTE	Q3sda3 paramecium
100	77.5	7.9	727	2	Q7UYN5_RHOBA	Q7uyn5 rhodopirell

ALIGNMENTS

```
RESULT 1
IL17E_HUMAN
ID   IL17E_HUMAN    STANDARD;      PRT;   177 AA.
AC   Q9H293; Q8IZV3; Q8WXB0;
DT   31-JAN-2002, integrated into UniProtKB/Swiss-Prot.
DT   01-MAR-2001, sequence version 1.
DT   07-FEB-2006, entry version 36.
DE   Interleukin-17E precursor (IL-17E) (Interleukin-25) (IL-25).
GN   Name=IL17E; Synonyms=IL25; ORFNames=UNQ3120/PRO10272;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
RX   PubMed=11058597; DOI=10.1074/jbc.M008289200;
RA   Lee J., Ho W.-H., Maruoka M., Corpuz R.T., Baldwin D.T., Foster J.S.,
RA   Goddard A.D., Yansura D.G., Vandlen R.L., Wood W.I., Gurney A.L.;
RT   "IL-17E, a novel proinflammatory ligand for the IL-17 receptor homolog
RT   IL-17Rh1.";
RL   J. Biol. Chem. 276:1660-1664(2001).
RN   [2]
RP   NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 2).
RX   MEDLINE=21629216; PubMed=11754819; DOI=10.1016/S1074-7613(01)00243-6;
RA   Fort M.M., Cheung J., Yen D., Li J., Zurawski S.M., Lo S., Menon S.,
RA   Clifford T., Hunte B., Lesley R., Muchamuel T., Hurst S.D.,
RA   Zurawski G., Leach M.W., Gorman D.M., Rennick D.M.;
RT   "IL-25 induces IL-4, IL-5, and IL-13 and Th2-associated pathologies in
RT   vivo.";
RL   Immunity 15:985-995(2001).
RN   [3]
RP   NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 2).
RC   TISSUE=Testis;
RX   MEDLINE=22224358; PubMed=12239140; DOI=10.1182/blood-2002-01-0012;
RA   Kim M.R., Manoukian R., Yeh R., Silbiger S.M., Danilenko D.M.,
RA   Scully S., Sun J., DeRose M.L., Stolina M., Chang D., Van G.Y.,
RA   Clarkin K., Nguyen H.Q., Yu Y.B., Jing S., Senaldi G., Elliott G.,
RA   Medlock E.S.;
RT   "Transgenic overexpression of human IL-17E results in eosinophilia, B-
RT   lymphocyte hyperplasia, and altered antibody production.";
RL   Blood 100:2330-2340(2002).
RN   [4]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RX   MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA   Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
RA   Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA   Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA   Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA   Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,
RA   Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA   Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,
RA   Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
RA   Wood W.I., Godowski P.J., Gray A.M.;
RT   "The secreted protein discovery initiative (SPDI), a large-scale
RT   effort to identify novel human secreted and transmembrane proteins: a
RT   bioinformatics assessment.";
RL   Genome Res. 13:2265-2270(2003).
RN   [5]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [6]
RP   PROTEIN SEQUENCE OF 33-47.
RX   PubMed=15340161; DOI=10.1110/ps.04682504;
RA   Zhang Z., Henzel W.J.;
RT   "Signal peptide prediction based on analysis of experimentally
RT   verified cleavage sites.";
RL   Protein Sci. 13:2819-2824(2004).
CC   -!- FUNCTION: Induces activation of NF-kappa-B and stimulates
CC       production of the proinflammatory chemokine IL-8. Proinflammatory
CC       cytokine favoring Th2-type immune responses.
CC   -!- SUBCELLULAR LOCATION: Secreted protein.
CC   -!- ALTERNATIVE PRODUCTS:
CC       Event=Alternative splicing; Named isoforms=2;
CC       Name=1;
CC         IsoId=Q9H293-1; Sequence=Displayed;
CC       Name=2;
CC         IsoId=Q9H293-2; Sequence=VSP_010159;
CC   -!- TISSUE SPECIFICITY: Expressed at low levels in several tissues,
CC       including brain, kidney, lung, prostate, testis, spinal cord,
CC       adrenal gland, and trachea.
CC   -!- SIMILARITY: Belongs to the IL-17 family.
CC   ---------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ---------------------------------------------------------------------
DR   EMBL; AF305200; AAG40848.1; -; mRNA.
DR   EMBL; AF458059; AAL57622.1; -; mRNA.
DR   EMBL; AF461739; AAN39038.1; -; mRNA.
DR   EMBL; AY359127; AAQ89484.1; -; mRNA.
DR   EMBL; BC069565; AAH69565.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSG00000166090; Homo sapiens.
DR   HGNC; HGNC:13765; IL17E.
DR   MIM; 605658; gene.
DR   GO; GO:0016020; C:membrane; NAS.
DR   GO; GO:0030380; F:interleukin-17E receptor binding; TAS.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
KW   Alternative splicing; Cytokine; Direct protein sequencing;
KW   Glycoprotein; Signal.
FT   SIGNAL       1     32
FT   CHAIN       33    177       Interleukin-17E.
FT                               /FTId=PRO_0000015431.
FT   CARBOHYD    136    136       N-linked (GlcNAc. . .) (Potential).
FT   DISULFID    110    168       By similarity.
FT   DISULFID    115    170       By similarity.
FT   VARSPLIC      1     18       MRERPRLGEDSSLISLFL -> MY (in isoform 2).
FT                               /FTId=VSP_010159.
FT   CONFLICT    177    177       G -> A (in Ref. 2).
SQ   SEQUENCE   177 AA;  20330 MW;  52D895710CD59871 CRC64;

  Query Match             100.0%;  Score 985;  DB 1;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 3.5e-82;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVP 60

Qy         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT 120

Qy        121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       121 GSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177

RESULT 2
Q2M3F0_HUMAN
ID   Q2M3F0_HUMAN    PRELIMINARY;    PRT;    161 AA.
AC   Q2M3F0;
DT   21-FEB-2006, integrated into UniProtKB/TrEMBL.
DT   21-FEB-2006, sequence version 1.
DT   21-FEB-2006, entry version 1.
DE   Interleukin 17E, isoform 2.
GN   Name=IL17E;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Pooled;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Pooled;
RG   NIH MGC Project;
RL   Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
CC   -----------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   -----------------------------------------------------------------------
DR   EMBL; BC104931; AAI04932.1; -; mRNA.
DR   EMBL; BC104929; AAI04930.1; -; mRNA.
SQ   SEQUENCE   161 AA;  18523 MW;  37685913FCFE151D CRC64;

  Query Match             91.2%;  Score 898;  DB 2;  Length 161;
  Best Local Similarity   100.0%;  Pred. No. 3e-74;
  Matches  159;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        19 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 78
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         3 QVVAFLAMVMGTHTYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASE 62

Qy        79 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 138
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        63 DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQT 122

Qy       139 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 177
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Db       123 VFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG 161


RESULT 3
Q8VHH8_MOUSE
ID   Q8VHH8_MOUSE    PRELIMINARY;    PRT;    169 AA.
AC   Q8VHH8;
DT   01-MAR-2002, integrated into UniProtKB/TrEMBL.
DT   01-MAR-2002, sequence version 1.
DT   07-FEB-2006, entry version 14.
DE   IL25.
GN   Name=Il17e;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC   Muroidea; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6;
RX   MEDLINE=21629216; PubMed=11754819; DOI=10.1016/S1074-7613(01)00243-6;
RA   Fort M.M., Cheung J., Yen D., Li J., Zurawski S.M., Lo S., Menon S.,
RA   Clifford T., Hunte B., Lesley R., Muchamuel T., Hurst S.D.,
RA   Zurawski G., Leach M.W., Gorman D.M., Rennick D.M.;
RT   "IL-25 induces IL-4, IL-5, and IL-13 and Th2-associated pathologies in
RT   vivo.";
RL   Immunity 15:985-995(2001).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   STRAIN=C57BL/6;
RA   Hurst S.D., Muchamuel T., Gorman D.M., Gilbert J.M., Clifford T.,
RA   Kwan S., Menon S., Seymour B., Jackson C., Kung T., Brieland J.,
RA   Zurawski S.M., Chapman R., Zurawski G., Coffman R.L.;
RL   Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
CC   -----------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   -----------------------------------------------------------------------
DR   EMBL; AF458060; AAL57623.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSMUSG00000040770; Mus musculus.
DR   MGI; MGI:2155888; Il17e.
DR   GO; GO:0005615; C:extracellular space; RCA.
DR   GO; GO:0005125; F:cytokine activity; IDA.
DR   GO; GO:0030222; P:eosinophil differentiation; IDA.
DR   GO; GO:0006954; P:inflammatory response; IMP.
DR   GO; GO:0006954; P:inflammatory response; IDA.
DR   GO; GO:0009624; P:response to nematode; IDA.
DR   GO; GO:0009621; P:response to pathogenic fungi; IDA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   169 AA;  19210 MW;  CFAD2CEDE452C94D CRC64;

  Query Match             70.8%;  Score 697;  DB 2;  Length 169;
  Best Local Similarity   76.5%;  Pred. No. 8.5e-56;
  Matches  127;  Conservative    9;  Mismatches   22;  Indels    8;  Gaps    1;

Qy        19 QVVAFLAMVMGTHTY--------SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRH 70
             | ||||||::||||        || ||||||| |:  || |:||:  | | | ||
Db         3 QAVAFLAMIVGTHTVSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHTHH 62

Qy        71 PESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNS 130
              |||||:||||||||||| ||||||||:|||||||||||||||||||||||||||| |||
Db        63 AESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDPLGNS 122

Qy       131 ELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM 176
              |||||||||||||||:|||: ||||||||||||||||||||||
Db       123 VPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVM 168


RESULT 4
Q8VHC9_MOUSE
ID   Q8VHC9_MOUSE    PRELIMINARY;    PRT;    153 AA.
AC   Q8VHC9;
DT   01-MAR-2002, integrated into UniProtKB/TrEMBL.
DT   01-MAR-2002, sequence version 1.
DT   07-FEB-2006, entry version 15.
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DE   Interleukin 17E (Fragment).
GN   Name=Il17e;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC   Muroidea; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=21571724; PubMed=11714825;
RA   Pan G., French D., Mao W., Maruoka M., Risser P., Lee J., Foster J.,
RA   Aggarwal S., Nicholes K., Guillet S., Schow P., Gurney A.L.;
RT   "Forced expression of murine IL-17E induces growth retardation,
RT   jaundice, a Th2-biased response, and multiorgan inflammation in
RT   mice.";
RL   J. Immunol. 167:6559-6567(2001). Dec.
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; AY034088; AAK59816.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSMUSG00000040770; Mus musculus.
DR   MGI; MGI:2155888; Il17e.
DR   GO; GO:0005615; C:extracellular space; RCA.
DR   GO; GO:0005125; F:cytokine activity; IDA.
DR   GO; GO:0030222; P:eosinophil differentiation; IDA.
DR   GO; GO:0006954; P:inflammatory response; IDA.
DR   GO; GO:0006954; P:inflammatory response; IMP.
DR   GO; GO:0009624; P:response to nematode; IDA.
DR   GO; GO:0009621; P:response to pathogenic fungi; IDA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
FT   CHAIN        <1    153       interleukin 17E.
FT   NON_TER       1      1
SQ   SEQUENCE   153 AA;  17456 MW;  A0EE897842E6EB39 CRC64;

  Query Match             66.2%;  Score 652;  DB 2;  Length 153;
  Best Local Similarity   81.1%;  Pred. No. 1e-51;
  Matches  116;  Conservative    7;  Mismatches   20;  Indels    0;  Gaps    0;

Qy         34 SHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHPESCRASEDGPLNSRAISPWRYE 93
              || ||||||| |:  || |:||:  | | ||     | ||||||:||||||||||||| ||
Db         10 SHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHTHHAESCRASKDGPLNSRAISPWSYE 69

Qy         94 LDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHK 153
              |||||||:||||||||||||||||||||||| |||  |||||||||||||||:|||:
Db         70 LDRDLNRVPQDLYHARCLCPHCVSLQTGSHMDPLGNSVPLYHNQTVFYRRPCHGEEGTHR 129

Qy        154 GYCLERRLYRVSLACVCVRPRVM 176
              |||||||||||||||||||||||
Db        130 HYCLERRLYRVSLACVCVRPRVM 152


RESULT 5
Q8K4C5_MOUSE
ID   Q8K4C5_MOUSE    PRELIMINARY;    PRT;    194 AA.
AC   Q8K4C5;
DT   01-OCT-2002, integrated into UniProtKB/TrEMBL.
DT   01-OCT-2002, sequence version 1.
DT   07-FEB-2006, entry version 11.
DE   IL-17C.
GN   Name=Il17c;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC   Muroidea; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=22072219; PubMed=12077275;
RA   Hurst S.D., Muchamuel T., Gorman D.M., Gilbert J.M., Clifford T.,
RA   Kwan S., Menon S., Seymour B., Jackson C., Kung T.T., Brieland J.K.,
RA   Zurawski S.M., Chapman R.W., Zurawski G., Coffman R.L.;
RT   "New IL-17 family members promote Th1 or Th2 responses in the lung: in
RT   vivo function of the novel cytokine IL-25.";
RL   J. Immunol. 169:443-453(2002).
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; AF458061; AAM77565.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSMUSG00000046108; Mus musculus.
DR   MGI; MGI:2446486; Il17c.
DR   GO; GO:0005125; F:cytokine activity; IDA.
DR   GO; GO:0030223; P:neutrophil differentiation; IDA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   194 AA;  21592 MW;  95797A630574BD1E CRC64;

  Query Match             17.3%;  Score 170.5;  DB 2;  Length 194;
  Best Local Similarity   31.2%;  Pred. No. 1.9e-07;
  Matches   45;  Conservative   14;  Mismatches   58;  Indels   27;  Gaps    5;

Qy         53 RW-STVPVPPLEPARPNRHPESCRASEDGPL-----------------NSRAISPWRYE 93
              ||   :||  :      |   |  :|||                  : |:||||||
Db         53 RWEQALPVALVASLEATGH----RRQHEGPLAGTQCPVLRPEEVLEADTHERSISPWRYR 108

Qy         94 LDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGE---KG 150
              :| | || || |  | |||  |:: :||       ||  |  :  |  |:||  :
Db        109 IDTDENRYPQKLAVAECLCRGCINAKTGRETAAL-NSVQLLQSLLVLRRQPCSRDGTADP 167

Qy        151 THKGYCLERRLYRVSLACVCVRPR 174
              |   :       || : | || ||
Db        168 TPGSFAFHTEFIRVPVGCTCVLPR 191


RESULT 6
IL17C_HUMAN
ID   IL17C_HUMAN    STANDARD;      PRT;   197 AA.
AC   Q9P0M4; Q9HC75;
DT   31-JAN-2002, integrated into UniProtKB/Swiss-Prot.
DT   01-OCT-2000, sequence version 1.
DT   07-FEB-2006, entry version 35.
DE   Interleukin-17C precursor (IL-17C) (Cytokine CX2).
GN   Name=IL17C; ORFNames=UNQ561/PRO1122;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [MRNA].
RX   MEDLINE=20105548; PubMed=10639155; DOI=10.1073/pnas.97.2.773;
RA   Li H., Chen J., Huang A., Stinson J., Heldens S., Foster J., Dowd P.,
RA   Gurney A.L., Wood W.I.;
RT   "Cloning and characterization of IL-17B and IL-17C, two new members of
RT   the IL-17 cytokine family.";
RL   Proc. Natl. Acad. Sci. U.S.A. 97:773-778(2000).
RN   [2]
RP   NUCLEOTIDE SEQUENCE [MRNA].
RA   Zhang W., He L., Wan T., Yuan Z., Cao X.;
RT   "Novel human cytokine CX2 with homology to IL-17.";
RL   Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.
RN   [3]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RX   MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA   Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
RA   Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA   Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA   Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA   Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,
RA   Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA   Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,
RA   Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
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RA   Wood W.I., Godowski P.J., Gray A.M.;
RT   "The secreted protein discovery initiative (SPDI), a large-scale
RT   effort to identify novel human secreted and transmembrane proteins: a
RT   bioinformatics assessment.";
RL   Genome Res. 13:2265-2270(2003).
RN   [4]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC   -!- FUNCTION: Stimulates the release of tumor necrosis factor alpha
CC       and IL-1beta from the monocytic cell line THP-1.
CC   -!- SUBCELLULAR LOCATION: Secreted protein.
CC   -!- SIMILARITY: Belongs to the IL-17 family.
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; AF152099; AAF28105.1; -; mRNA.
DR   EMBL; AF142410; AAG27921.1; -; mRNA.
DR   EMBL; AY358471; AAQ88835.1; -; mRNA.
DR   EMBL; BC069152; AAH69152.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSG00000124391; Homo sapiens.
DR   HGNC; HGNC:5983; IL17C.
DR   MIM; 604628; gene.
DR   GO; GO:0005615; C:extracellular space; TAS.
DR   GO; GO:0005625; C:soluble fraction; TAS.
DR   GO; GO:0005125; F:cytokine activity; TAS.
DR   GO; GO:0007166; P:cell surface receptor linked signal transdu. . .; TAS.
DR   GO; GO:0007267; P:cell-cell signaling; TAS.
DR   GO; GO:0006954; P:inflammatory response; TAS.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
KW   Cytokine; Signal.
FT   SIGNAL       1     18       Potential.
FT   CHAIN       19    197       Interleukin-17C.
FT                               /FTId=PRO_0000015429.
FT   DISULFID   129    189       By similarity.
FT   DISULFID   134    191       By similarity.
FT   CONFLICT    50     50       H -> R (in Ref. 2).
SQ   SEQUENCE   197 AA;  21765 MW;  BAE0152E18DE7D08 CRC64;

  Query Match             16.8%;  Score 165.5;  DB 1;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.6e-07;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||    | |     :|||             :|   :|   |  || |      |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81

Qy         74 CRASEDGPL----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
              |:   |:          : |:|||||| :| | :| || |  | |||  |:  :||
Db         82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy        123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 || |  :  |  |||| :     |   :        | : | || ||
Db        142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 7
Q3MIG8_HUMAN
ID   Q3MIG8_HUMAN   PRELIMINARY;   PRT;   197 AA.
AC   Q3MIG8;
DT   25-OCT-2005, integrated into UniProtKB/TrEMBL.
DT   25-OCT-2005, sequence version 1.
DT   21-FEB-2006, entry version 5.
DE   Interleukin 17C.
GN   Name=IL17C;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Lung and placenta;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Lung and placenta;
RG   NIH MGC Project;
RL   Submitted (AUG-2005) to the EMBL/GenBank/DDBJ databases.
RN   [3]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Lung and placenta;
RG   NIH MGC Project;
RL   Submitted (JAN-2006) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; BC101835; AAI01836.1; -; mRNA.
DR   EMBL; BC112196; AAI12197.1; -; mRNA.
DR   GO; GO:0005576; C:extracellular region; IEA.
DR   GO; GO:0005125; F:cytokine activity; IEA.
DR   GO; GO:0006954; P:inflammatory response; IEA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   197 AA;  21765 MW;  BAE0152E18DE7D08 CRC64;

  Query Match             16.8%;  Score 165.5;  DB 2;  Length 197;
  Best Local Similarity   29.7%;  Pred. No. 5.6e-07;
  Matches   52;  Conservative   16;  Mismatches   70;  Indels   37;  Gaps    7;

Qy         31 HTYSHWPSCCPSKGQDTSEEL------------LRW-STVP---VPPLEPARPNRHPES 73
              | :||    | |     :|||             :|   :|   |  || |      |
Db         27 HPHSHGTPHCYS-----AEELPLGQAPPHLLARGAKWGQALPVALVSSLEAASHRGRHER 81
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Qy          74 CRASEDGPL----------NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGS 122
               |:   |:           : |:|||||| :| | :| || |  | |||  |:  :||
Db          82 PSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGR 141

Qy         123 HMDPRGNSELLYHNQTVFYRRPCHGEKG---THKGYCLERRLYRVSLACVCVRPR 174
                 ||  |  :  |  ||||  :     |   :         | : | || ||
Db         142 ETAAL-NSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPR 195


RESULT 8
Q5TKT1_BRARE
ID   Q5TKT1_BRARE   PRELIMINARY;   PRT;   212 AA.
AC   Q5TKT1;
DT   21-DEC-2004, integrated into UniProtKB/TrEMBL.
DT   21-DEC-2004, sequence version 1.
DT   07-FEB-2006, entry version 5.
DE   Interleukin 17_4.
GN   Name=IL-17_4;
OS   Brachydanio rerio (Zebrafish) (Danio rerio).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC   Cyprinidae; Danio.
OX   NCBI_TaxID=7955;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RA   Irengbam G.D., Ram S., Sakai M.;
RT   "Cloning and analysis of IL-17 genes in zebrafish.";
RL   Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; AB195259; BAD72789.1; -; Genomic_DNA.
DR   Ensembl; ENSDARG00000010700; Danio rerio.
DR   GO; GO:0005576; C:extracellular region; IEA.
DR   GO; GO:0005125; F:cytokine activity; IEA.
DR   GO; GO:0006954; P:inflammatory response; IEA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   212 AA;  23624 MW;  EFED941CB795D53D CRC64;

  Query Match             14.1%;  Score 138.5;  DB 2;  Length 212;
  Best Local Similarity   29.3%;  Pred. No. 0.00018;
  Matches   55;  Conservative   17;  Mismatches   65;  Indels   51;  Gaps   11;

Qy          20 VVAFLAMVMGTHTYSHWPSCCPS----KGQDTSEELLRW-STVPVP---------- 60
               ||: | :|        |  || |    :||  |    |  | : :|
Db           5 VVSTLVLV--------WLWCCGSAPGERGQKVSRRAPRTRSCLDLPEEILEQMFGRLSVG 56

Qy          61 -------PLEPARPNRHPESC----RASED---GPLNSRAISPWRYELDRDLNRLPQDLY 106
                    |: | | |   ||    | : |     |:|  ::||| | :  |  | |: |
Db          57 VLSAFHHTLQLATPERQNLSCGSASRLARDRPRTPVNLLSLSPWAYRISHDPARYPRYLP 116

Qy         107 HARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRR---PCHGEKGTHKGYCLERRLYR 163
                | |||  |:|   |   | | |  :|  ||  ||   || |  | |
Db         117 EAYCLCKGCLSGLNGEESD-RFRSTPVY-MPTVILRRTVGPCVG--GRHS---YTESYVS 169

Qy         164 VSLACVCV 171
               ::: | ||
Db         170 IAVGCTCV 177


RESULT 9
Q7T1P7_CHICK
ID   Q7T1P7_CHICK   PRELIMINARY;   PRT;   169 AA.
AC   Q7T1P7;
DT   01-OCT-2003, integrated into UniProtKB/TrEMBL.
DT   01-OCT-2003, sequence version 1.
DT   07-FEB-2006, entry version 9.
DE   Interleukin 17.
GN   Name=IL-17;
OS   Gallus gallus (Chicken).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC   Gallus.
OX   NCBI_TaxID=9031;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RA   Lillehoj H.S., Min W.;
RL   Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RA   Qin Z.H., Cai J.P., Ye X.H., Wang P.Y., Chen W., Xie M.Q.;
RL   Submitted (FEB-2005) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; AJ493595; CAD38489.1; -; mRNA.
DR   EMBL; AY920750; AAX18249.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSGALG00000016678; Gallus gallus.
DR   GO; GO:0005576; C:extracellular region; IEA.
DR   GO; GO:0005125; F:cytokine activity; IEA.
DR   GO; GO:0006954; P:inflammatory response; IEA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   169 AA;  18942 MW;  7EB6E4979A599C14 CRC64;

  Query Match             13.9%;  Score 136.5;  DB 2;  Length 169;
  Best Local Similarity   25.5%;  Pred. No. 0.00021;
  Matches   36;  Conservative   21;  Mismatches   45;  Indels   39;  Gaps    5;

Qy          66 RPNRHPES--------CRASEDG----------------------PLNSRAISPWRYEL 94
               ||   |||         |   :||                      :: |:::|| | :
Db          33 RPGLEPESLFKKADAGCLTQKDGKFPQTVRVNISISNMNQDTKVTLDISKRSLAPWDYRI 92

Qy          95 DRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKG 154
               | | || |: :  |:|    ||:  :   :|   ||  :     |  | |    ||
Db          93 DEDHNRFPRLVADAQCRHSRCVN--SAGQLDHSVNSVPIKQEILVLRREP----KGCQHS 146

Qy         155 YCLERRLYRVSLACVCVRPRV 175
               | ||:::  ::: | || | :
Db         147 YRLEKKM--ITVGCTCVTPLI 165


RESULT 10
Q5XP68_CHICK
ID   Q5XP68_CHICK   PRELIMINARY;   PRT;   169 AA.
AC   Q5XP68;
DT   23-NOV-2004, integrated into UniProtKB/TrEMBL.
DT   23-NOV-2004, sequence version 1.
DT   07-FEB-2006, entry version 6.
DE   IL-17.
OS   Gallus gallus (Chicken).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC   Gallus.
OX   NCBI_TaxID=9031;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Cecal tonsil;
RA   Geriletu Z., Li X.R.;
RT   "Cloning and analysis of chicken IL-17 cDNA.";
RL   Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
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CC   ---------------------------------------------------------------------
DR   EMBL; AY744450; AAU95678.1; -; mRNA.
DR   GO; GO:0005576; C:extracellular region; IEA.
DR   GO; GO:0005125; F:cytokine activity; IEA.
DR   GO; GO:0006954; P:inflammatory response; IEA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
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SQ   SEQUENCE   169 AA;  18956 MW;  7EB6E491FA3F9C14 CRC64;

  Query Match             13.2%;  Score 130.5;  DB 2;  Length 169;
  Best Local Similarity   24.8%;  Pred. No. 0.00076;
  Matches   35;  Conservative   21;  Mismatches   46;  Indels   39;  Gaps    5;

Qy         66 RPNRHPES--------CRASEDG----------------------PLNSRAISPWRYEL 94
              ||    |||        |   :||                      :: |:::|| | :
Db         33 RPGLEPESLFKKADAGCLTQKDGKFPQTVRVNISISNMNQDTKVTLDISKRSLAPWDYRI 92

Qy         95 DRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYRRPCHGEKGTHKG 154
              | | || |: :  |:|    ||:  :   :|   ||  :     |  | |    |
Db         93 DEDHNRFPRLVADAQCRHSRCVN--SAGQLDHSVNSVPIKQEILVLRREP----KACQHS 146

Qy        155 YCLERRLYRVSLACVCVRPRV 175
              | ||:::  ::: | || | :
Db        147 YRLEKKM--ITVGCTCVTPLI 165


RESULT 11
Q6DIY0_XENTR
ID   Q6DIY0_XENTR   PRELIMINARY;   PRT;   203 AA.
AC   Q6DIY0;
DT   16-AUG-2004, integrated into UniProtKB/TrEMBL.
DT   16-AUG-2004, sequence version 1.
DT   07-FEB-2006, entry version 10.
DE   Interleukin 17B.
GN   Name=il17b-prov;
OS   Xenopus tropicalis (Western clawed frog) (Silurana tropicalis).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
OC   Xenopodinae; Xenopus; Silurana.
OX   NCBI_TaxID=8364;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Whole body;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RC   TISSUE=Whole body;
RA   Klein S., Gerhard D.S.;
RL   Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ---------------------------------------------------------------------
DR   EMBL; BC075405; AAH75405.1; -; mRNA.
DR   GO; GO:0005576; C:extracellular region; IEA.
DR   GO; GO:0005125; F:cytokine activity; IEA.
DR   GO; GO:0006954; P:inflammatory response; IEA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   203 AA;  22744 MW;  5FC4FEE26A0DE62B CRC64;

  Query Match             12.9%;  Score 127.5;  DB 2;  Length 203;
  Best Local Similarity   29.6%;  Pred. No. 0.0018;
  Matches   29;  Conservative   18;  Mismatches   38;  Indels   13;  Gaps    3;

Qy         83 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 142
              | |::||| | :: | ||:| |:  |||||  ||:  |    :    : :  :::    |
Db        109 NRRSLSPWAYSINHDENRIPIDIPEARCLCTGCVNPFT--MKEDFSMTSIPIYSKIPVRR 166

Qy        143 RPCHG---------EKGTHKGYCLERRLYRVSLACVCV 171
              | | |           |  || |     :  ::: | |:
Db        167 RLCEGSSSPIRARRRKKCHKEYMAV--MENIAVGCTCI 202


RESULT 12
IL17D_HUMAN
ID   IL17D_HUMAN     STANDARD;      PRT;   202 AA.
AC   Q8TAD2;
DT   26-APR-2004, integrated into UniProtKB/Swiss-Prot.
DT   01-JUN-2002, sequence version 1.
DT   07-FEB-2006, entry version 21.
DE   Interleukin-17D precursor (IL-17D) (Interleukin-27) (IL-27).
GN   Name=IL17D; Synonyms=IL27; ORFNames=UNQ3096/PRO21175;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE [MRNA].
RC   TISSUE=Brain;
RA   Hadj-Slimane R., Bobe P.;
RT   "Interleukin 27 (IL27): a newly identified cytokine.";
RL   Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
RN   [2]
RP   NUCLEOTIDE SEQUENCE [MRNA], FUNCTION, AND TISSUE SPECIFICITY.
RA   Starnes T., Broxmeyer H.E., Robertson M.J., Hromas R.;
RT   "IL-17D, a novel member of the IL-17 family, stimulates cytokine
RT   production and inhibits hemopoiesis.";
RL   J. Acquir. Immune Defic. Syndr. Hum. Retrovirol. 169:642-646(2002).
RN   [3]
RP   NUCLEOTIDE SEQUENCE [MRNA].
RA   Gilbert J.M., Gorman D.M.;
RL   Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
RN   [4]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RX   MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA   Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
RA   Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA   Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA   Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA   Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,
RA   Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA   Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,
RA   Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
RA   Wood W.I., Godowski P.J., Gray A.M.;
RT   "The secreted protein discovery initiative (SPDI), a large-scale
RT   effort to identify novel human secreted and transmembrane proteins: a
RT   bioinformatics assessment.";
RL   Genome Res. 13:2265-2270(2003).
RN   [5]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RC   TISSUE=Brain;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
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RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA   Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA   Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC   -!- FUNCTION: Induces expression of IL-6, IL-8, and GM-CSF from
CC       endothelial cells.
CC   -!- SUBCELLULAR LOCATION: Secreted protein.
CC   -!- TISSUE SPECIFICITY: Expressed preferentially in adipose, skeletal
CC       muscle and CNS.
CC   -!- SIMILARITY: Belongs to the IL-17 family.
CC   ---------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ---------------------------------------------------------------------
DR   EMBL; AY078238; AAL86911.1; -; mRNA.
DR   EMBL; AF479775; AAM12734.1; -; mRNA.
DR   EMBL; AF458062; AAM77566.1; -; mRNA.
DR   EMBL; AY359113; AAQ89471.1; -; mRNA.
DR   EMBL; BC036243; AAH36243.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSG00000172458; Homo sapiens.
DR   HGNC; HGNC:5984; IL17D.
DR   MIM; 607587; gene.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
KW   Cytokine; Glycoprotein; Signal.
FT   SIGNAL       1     15       Potential.
FT   CHAIN       16    202       Interleukin-17D.
FT                               /FTId=PRO_0000015430.
FT   CARBOHYD     68     68       N-linked (GlcNAc. . .) (Potential).
FT   CARBOHYD    181    181       N-linked (GlcNAc. . .) (Potential).
FT   CONFLICT     78     78       A -> G (in Ref. 4).
SQ   SEQUENCE   202 AA;  21893 MW;  D171C5FB2DD039C3 CRC64;

  Query Match             12.8%;  Score 126.5;  DB 1;  Length 202;
  Best Local Similarity   27.0%;  Pred. No. 0.0022;
  Matches   44;  Conservative   17;  Mismatches   69;  Indels   33;  Gaps    6;

Qy         36 WPSCCPSKGQ---------DTSEELLR--------------WSTVPVPPLEPARPNRHPE 72
              | :  |  |:          |  ||||                |: : | | ||    |
Db         14 WAAGAPRAGRRPARPRGCADRPEELLEQLYGRLAAGVLSAFHHTLQLGPREQARNASCPA 73

Qy         73 SCRASE---DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGN 129
                | ::     | | |::||| | :  |  | |: |  | |||  |::   |   | |
Db         74 GGRPADRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFGEE-DVRFR 132

Qy        130 SELLYHNQTVFYRRP-CHGEKGTHKGYCLERRLYRVSLACVCV 171
                |  :|    |  | | | | :  :          : : | ||
Db        133 SAPVYMPTVVLRRTPACAGGRSVY-----TEAYVTIPVGCTCV 170


RESULT 13
Q5VUZ7_HUMAN
ID   Q5VUZ7_HUMAN   PRELIMINARY;   PRT;   202 AA.
AC   Q5VUZ7;
DT   10-MAY-2005, integrated into UniProtKB/TrEMBL.
DT   10-MAY-2005, sequence version 1.
DT   07-FEB-2006, entry version 6.
DE   Interleukin 17D.
GN   Name=IL17D; ORFNames=RP11-261P13.1-001;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RA   Johnson C.;
RL   Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RA   Holt K.;
RL   Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ---------------------------------------------------------------------
DR   EMBL; AL512652; CAH71796.1; -; Genomic_DNA.
DR   EMBL; AL161772; CAH71796.1; JOINED; Genomic_DNA.
DR   EMBL; AL161772; CAH70875.1; -; Genomic_DNA.
DR   EMBL; AL512652; CAH70875.1; JOINED; Genomic_DNA.
DR   Ensembl; ENSG00000172458; Homo sapiens.
DR   GO; GO:0005576; C:extracellular region; IEA.
DR   GO; GO:0005125; F:cytokine activity; IEA.
DR   GO; GO:0006954; P:inflammatory response; IEA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   202 AA;  21893 MW;  D171C5FB2DD039C3 CRC64;

  Query Match             12.8%;  Score 126.5;  DB 2;  Length 202;
  Best Local Similarity   27.0%;  Pred. No. 0.0022;
  Matches   44;  Conservative   17;  Mismatches   69;  Indels   33;  Gaps    6;

Qy         36 WPSCCPSKGQ---------DTSEELLR--------------WSTVPVPPLEPARPNRHPE 72
              | :  |  |:          |  ||||                |: : | | ||    |
Db         14 WAAGAPRAGRRPARPRGCADRPEELLEQLYGRLAAGVLSAFHHTLQLGPREQARNASCPA 73

Qy         73 SCRASE---DGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGN 129
                | ::     | | |::||| | :  |  | |: |  | |||  |::   |   | |
Db         74 GGRPADRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFGEE-DVRFR 132

Qy        130 SELLYHNQTVFYRRP-CHGEKGTHKGYCLERRLYRVSLACVCV 171
                |  :|    |  | | | | :  :          : : | ||
Db        133 SAPVYMPTVVLRRTPACAGGRSVY-----TEAYVTIPVGCTCV 170


RESULT 14
IL17B_HUMAN
ID   IL17B_HUMAN    STANDARD;      PRT;   180 AA.
AC   Q9UHF5;
DT   31-JAN-2002, integrated into UniProtKB/Swiss-Prot.
DT   01-MAY-2000, sequence version 1.
DT   07-FEB-2006, entry version 36.
DE   Interleukin-17B precursor (IL-17B) (Cytokine-like protein Zcyto7)
DE   (Neuronal interleukin-17-related factor) (Interleukin-20) (IL-20).
GN   Name=IL17B; Synonyms=IL20, NIRF, ZCYTO7; ORFNames=UNQ516/PRO1031;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RA   Presnell S., Gilbert T., Whitmore T., Foster D., Hart C., Lehner J.,
RA   Martinez T., Hoffman R., O'Hara P.;
RL   Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
RN   [2]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=20317118; PubMed=10749887; DOI=10.1074/jbc.M910228199;
RA   Shi Y., Ullrich S.J., Zhang J., Connolly K., Grzegorzewski K.J.,
RA   Barber M.C., Wang W., Wathen K., Hodge V., Fisher C.L., Olsen H.,
RA   Ruben S.M., Knyazev I., Cho Y.H., Kao V., Wilkinson K.A.,
RA   Carrell J.A., Ebner R.;
RT   "A novel cytokine receptor-ligand pair. Identification, molecular
RT   characterization, and in vivo immunomodulatory activity.";
RL   J. Biol. Chem. 275:19167-19176(2000).
RN   [3]
RP   NUCLEOTIDE SEQUENCE.
RX   MEDLINE=20105548; PubMed=10639155; DOI=10.1073/pnas.97.2.773;
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RA   Li H., Chen J., Huang A., Stinson J., Heldens S., Foster J., Dowd P.,
RA   Gurney A.L., Wood W.I.;
RT   "Cloning and characterization of IL-17B and IL-17C, two new members of
RT   the IL-17 cytokine family.";
RL   Proc. Natl. Acad. Sci. U.S.A. 97:773-778(2000).
RN   [4]
RP   NUCLEOTIDE SEQUENCE.
RA   Moore E.E., Presnell S., Garrigues U., Guilbot A., LeGuern E.,
RA   Smith D., Yao L., Whitmore T.E., Gilbert T., Kuestner R.E.;
RT   "Identification of a novel IL-17 related factor: demonstration of
RT   neuronal expression and evaluation as a candidate for the chromosome
RT   5q-linked form of Charcot-Marie-Tooth disease.";
RL   Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
RN   [5]
RP   NUCLEOTIDE SEQUENCE.
RA   Zhang W., Wang J., Cao X.;
RT   "Novel cytokine homology with interleukin-17.";
RL   Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
RN   [6]
RP   NUCLEOTIDE SEQUENCE [GENOMIC DNA].
RA   Rieder M.J., Carrington D.P., Chung M.-W., Lee K.L., Poel C.L., Yi Q.,
RA   Nickerson D.A.;
RT   "SeattleSNPs. NHLBI HL66682 program for genomic applications, UW-
RT   FHCRC, Seattle, WA (URL: http://pga.gs.washington.edu).";
RL   Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
RN   [7]
RP   NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RX   MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA   Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
RA   Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA   Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA   Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA   Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,
RA   Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA   Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,
RA   Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
RA   Wood W.I., Godowski P.J., Gray A.M.;
RT   "The secreted protein discovery initiative (SPDI), a large-scale
RT   effort to identify novel human secreted and transmembrane proteins: a
RT   bioinformatics assessment.";
RL   Genome Res. 13:2265-2270(2003).
CC   -!- FUNCTION: Stimulates the release of tumor necrosis factor alpha
CC       and IL-1beta from the monocytic cell line THP-1.
CC   -!- SUBCELLULAR LOCATION: Secreted protein.
CC   -!- TISSUE SPECIFICITY: Expressed in adult pancreas, small intestine,
CC       stomach, spinal cord and testis. Less pronounced expression in
CC       prostate, colon mucosal lining, and ovary.
CC   -!- SIMILARITY: Belongs to the IL-17 family.
CC   ---------------------------------------------------------------------
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CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ---------------------------------------------------------------------
DR   EMBL; AF184969; AAF01318.1; -; mRNA.
DR   EMBL; AF212311; AAF78775.1; -; mRNA.
DR   EMBL; AF152098; AAF28104.1; -; mRNA.
DR   EMBL; AF218727; AAG44136.1; -; mRNA.
DR   EMBL; AF110385; AAG39637.1; -; mRNA.
DR   EMBL; AF386077; AAK60336.1; -; Genomic_DNA.
DR   EMBL; AY358931; AAQ89290.1; -; mRNA.
DR   HSSP; Q96PD4; 1JPY.
DR   Ensembl; ENSG00000127743; Homo sapiens.
DR   HGNC; HGNC:5982; IL17B.
DR   MIM; 604627; gene.
DR   GO; GO:0005125; F:cytokine activity; TAS.
DR   GO; GO:0004871; F:signal transducer activity; TAS.
DR   GO; GO:0007267; P:cell-cell signaling; TAS.
DR   GO; GO:0006955; P:immune response; TAS.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
KW   Cytokine; Glycoprotein; Signal.
FT   SIGNAL       1     20       Potential.
FT   CHAIN       21    180       Interleukin-17B.
FT                               /FTId=PRO_0000015426.
FT   CARBOHYD     75     75       N-linked (GlcNAc. . .) (Potential).
FT   DISULFID    121    176       By similarity.
FT   DISULFID    126    178       By similarity.
SQ   SEQUENCE   180 AA;  20437 MW;  F1B0BC1446D0B14A CRC64;

  Query Match             12.7%;  Score 125.5;  DB 1;  Length 180;
  Best Local Similarity   33.3%;  Pred. No. 0.0023;
  Matches   30;  Conservative   16;  Mismatches   39;  Indels    5;  Gaps    3;

Qy         83 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 142
              | |::||| | :: | :|:| ||  ||||| ||:  |    : |    :   :|    |
Db         94 NKRSLSPWGYSINHDPSRIPVDLPEARCLCLGCVNPFT--MQEDRSMVSVPVFSQVPVRR 151

Qy        143 RPCHGEKGTHKGYCLERRLYR-VSLACVCV 171
              | |     |  | | :| :   ::: | |:
Db        152 RLCPPPPRT--GPCRQRAVMETIAVGCTCI 179


RESULT 15
Q6IAG3_HUMAN
ID   Q6IAG3_HUMAN   PRELIMINARY;   PRT;   180 AA.
AC   Q6IAG3;
DT   05-JUL-2004, integrated into UniProtKB/TrEMBL.
DT   05-JUL-2004, sequence version 1.
DT   07-FEB-2006, entry version 7.
DE   IL17B protein.
GN   Name=IL17B;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC   Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   NUCLEOTIDE SEQUENCE.
RA   Ebert L., Schick M., Neubert P., Schatten R., Henze S., Korn B.;
RL   Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
CC   ---------------------------------------------------------------------
CC   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC   Distributed under the Creative Commons Attribution-NoDerivs License
CC   ---------------------------------------------------------------------
DR   EMBL; CR457192; CAG33473.1; -; mRNA.
DR   Ensembl; ENSG00000127743; Homo sapiens.
DR   GO; GO:0005576; C:extracellular region; IEA.
DR   GO; GO:0005125; F:cytokine activity; IEA.
DR   GO; GO:0006954; P:inflammatory response; IEA.
DR   InterPro; IPR010345; IL17.
DR   Pfam; PF06083; IL17; 1.
SQ   SEQUENCE   180 AA;  20465 MW;  26E0BC0CF18A8D08 CRC64;

  Query Match             12.7%;  Score 125.5;  DB 2;  Length 180;
  Best Local Similarity   33.3%;  Pred. No. 0.0023;
  Matches   30;  Conservative   16;  Mismatches   39;  Indels    5;  Gaps    3;

Qy         83 NSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR 142
              | |::||| | :: | :|:| ||  ||||| ||:  |    : |    :   :|    |
Db         94 NKRSLSPWGYSINHDPSRIPVDLPEARCLCLGCVNPFT--MQEDRSMVSVPVFSQVPVRR 151

Qy        143 RPCHGEKGTHKGYCLERRLYR-VSLACVCV 171
              | |     |  | | :| :   ::: | |:
Db        152 RLCPPPPRT--GPCRQRAVMETIAVGCTCI 179


Search completed: July  6, 2006, 08:01:44
Job time : 304 secs
```